



October 11, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
12" 4-Way Riser ROW
Incident Number: nAPP2412354447 & nAPP2413036737
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 excavation and soil sampling activities performed to address two produced water releases at the 12" 4-Way Riser Right-of Way (ROW; Site). Based on the excavation activities and analytical results from the soil sampling events, Matador is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers nAPP2412354447 & nAPP2413036737.

BACKGROUND

The Site is located in Unit A, Section 06, Township 22 South, Range 33 East, in Lea County, New Mexico (32.42785°, -103.60404°) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On May 2, 2024, a leaking valve on a produced water transfer line resulted in the release of approximately 54 barrels (bbls) of produced water onto an off-pad pasture area. A vacuum truck was dispatched to the Site to remove free-standing fluids; a total of 15 bbls of produced water was recovered following the isolation and repair of the transfer line. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD Portal on May 5, 2024, and the release was assigned Incident Number nAPP2412354447.

On May 8, 2024, excess pressure built up in the same produced water transfer line, and approximately 100 barrels (bbls) of produced water were released. Maverick recovered 5 bbls from the ground surface. Matador reported the release using the NMOCD Portal on May 14, 2024, and the release was assigned Incident Number nAPP2413036737. The two releases overlapped and Matador addressed impacted soil from the two releases concurrently.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 105 feet below ground surface (bgs) based on a soil boring completed by Atkins Engineering Associates Inc. The soil boring CP-01881

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POD1 was completed on October 12, 2021. Soil boring, CP-01881 POD1 is located approximately 0.35 miles south of the Site. The soil boring was drilled to a total depth of 105 feet bgs and was dry. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. The location of the boring is presented on Figure 1 and the referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1,473 feet south 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: 20,000 mg/kg

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

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on May 2, 2023, Ensolum personnel were onsite to delineate the extent of waste-containing soil as indicated by field screening and laboratory analytical results. Seven boreholes (BH01 through BH07) were advanced via hand auger within the release extent to assess the vertical extent of the release. Delineation soil samples were collected from each at depths ranging from ground surface to 4 feet bgs. Nine delineation soil samples (SS01 through SS09) were collected from areas surrounding the release extent to verify the lateral extent at ground surface. All delineation soil samples were field screened for chloride using 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 B. Photographic documentation of delineation activities is included in Appendix C.

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

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LABORATORY ANALYTICAL RESULTS

All lateral delineation soil samples were in compliance with the Closure Criteria and reclamation requirement at ground surface. Laboratory analytical results for delineation soil samples collected from boreholes BH03 and BH07 were in compliance with the Closure Criteria and reclamation requirement. Surface samples collected from boreholes BH01, BH02, BH04, BH05, and BH06 contained TPH and/or chloride concentrations exceeding the reclamation requirement. The subsurface samples collected from the borings were in compliance with the Closure Criteria and reclamation requirement.

As a result, waste-containing soil was identified in the top 4 feet of the pasture area and excavation was necessary to support reclamation requirements. Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Prior to beginning excavation activities at the Site, an archaeological survey was completed. The survey determined that the release area was negative for cultural properties, and as such, the Cultural Properties Protection Rule (CPP) has been followed (see Appendix E).

The excavation of impacted soil was completed utilizing a tracked excavator, loader, hydro-vac, and belly dump trucks. To direct excavation activities, soil was field screened for TPH utilizing a PetroFLAG® soil analyzer system and chloride utilizing test strips. The excavation depth was variable, depending on field screening results and ranged from 0.5 feet to 4 feet bgs. Photographic documentation of excavation activities is included in Appendix C.

Beginning on September 11, 2024, 5-point composite confirmation 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 SW01 through SW24 were collected from the sidewalls of the excavation in the top four feet of the subsurface, with depths depending on excavation dimensions at each location. Composite soil samples FS01 through FS105 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

The final excavation extent measured approximately 18,872 square feet. A total of approximately 2,331 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the Lea Land Disposal Facility. The excavation extent and excavation soil sample locations are presented in Figures 3A through 3C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 through SW24 and excavation floor samples FS01 through FS105 indicated all COC concentrations were compliant with the Site Closure Criteria and in compliance with the reclamation requirement. Laboratory analytical results are summarized in Tables 2 and 3 and laboratory analytical reports are included as Appendix D.

RECLAMATION PLAN

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

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- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release includes: Kermit soils and Dune Land, 0 to 12 percent slopes and Tonuco loamy fine sand, 0 to 3 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on November 27, 2023;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: NMSLO Sandy Loam (SL) Mixture;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
 - The placement of wattles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 2024 release of produced water. Following remediation efforts, 105 composite confirmation floor soil samples (FS01 through FS105) and 24 composite confirmation sidewall samples (SW01 through SW24) were collected. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with Site Closure Criteria and with the reclamation requirement in the top 4 feet of soil. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

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Based on horizontal and vertical delineation sampling, depth to groundwater greater than 105 feet bgs, and confirmation soil sample laboratory analytical results in compliance with their respective Closure Criteria and reclamation requirement, Matador believes these remedial actions have been protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Numbers nAPP2412354447 & nAPP2413036737.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Ashley Giovengo".

Ashley Giovengo
Senior Scientist

A handwritten signature in black ink, appearing to read "Daniel R. Moir".

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

cc: Jason Touchet, Matador
NMSLO





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 (Confirmation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMSLO Cultural Resources Cover Sheet
Appendix F	NMOCD Correspondence






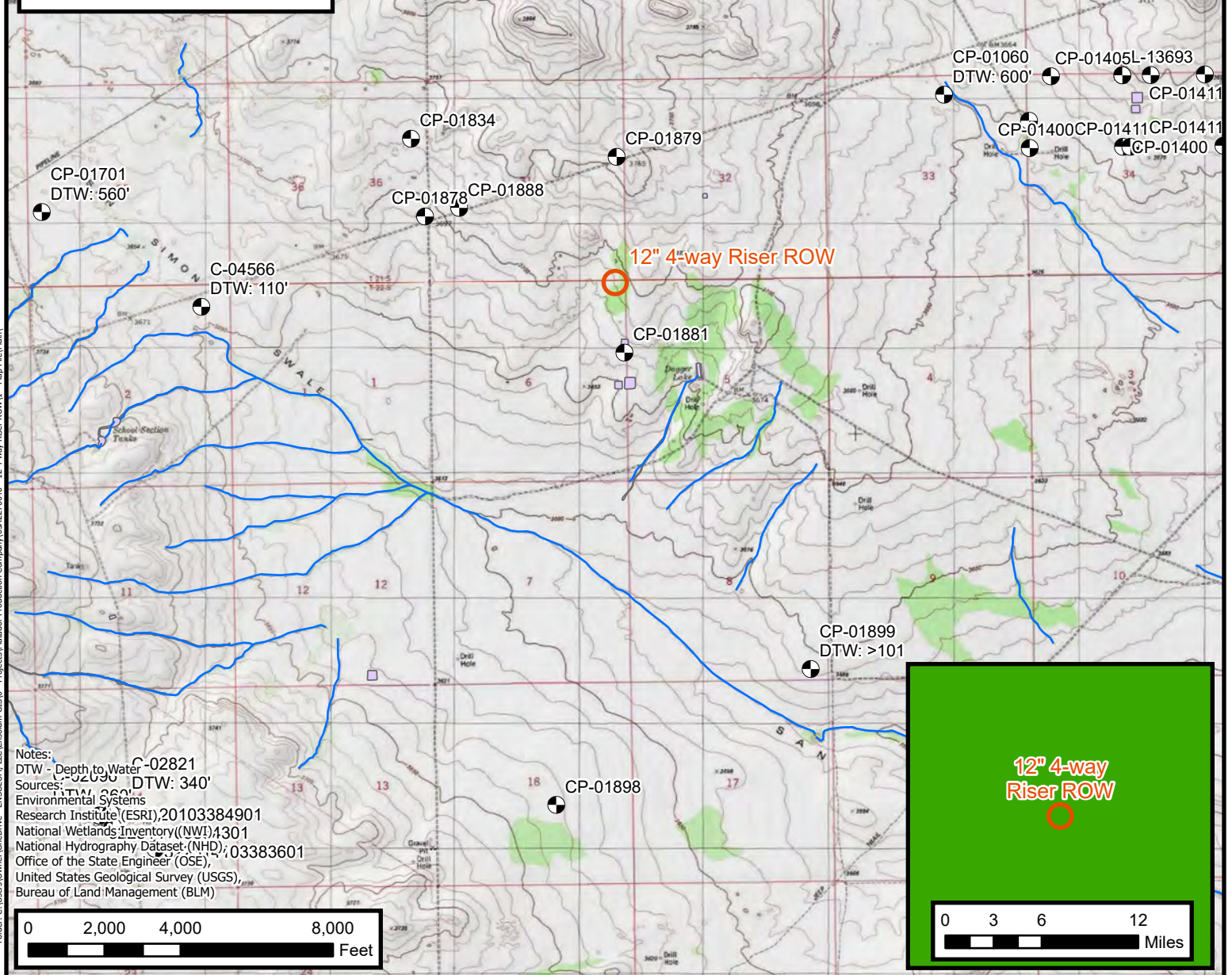
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature

Karst Potential

-  High
-  Medium
-  Low



Site Receptor Map

Matador Production Company

12" 4-way Riser ROW

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Unit A, Section 06, T 22S, R 33E

Lea County, New Mexico

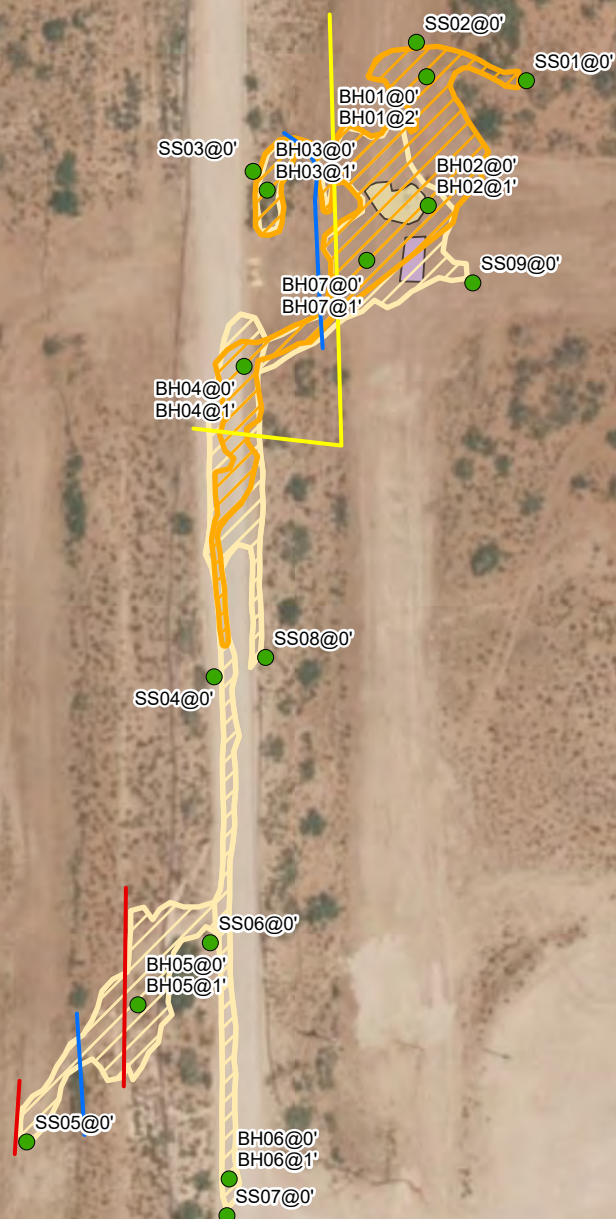
FIGURE

1



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Spill Area #1
- Spill Area #2
- Header
- Pump



Notes:
Sample ID @ Depth Below Ground Surface.

0 25 50 100 150 200
Feet

Sources: Environmental Systems Research Institute (ESRI)

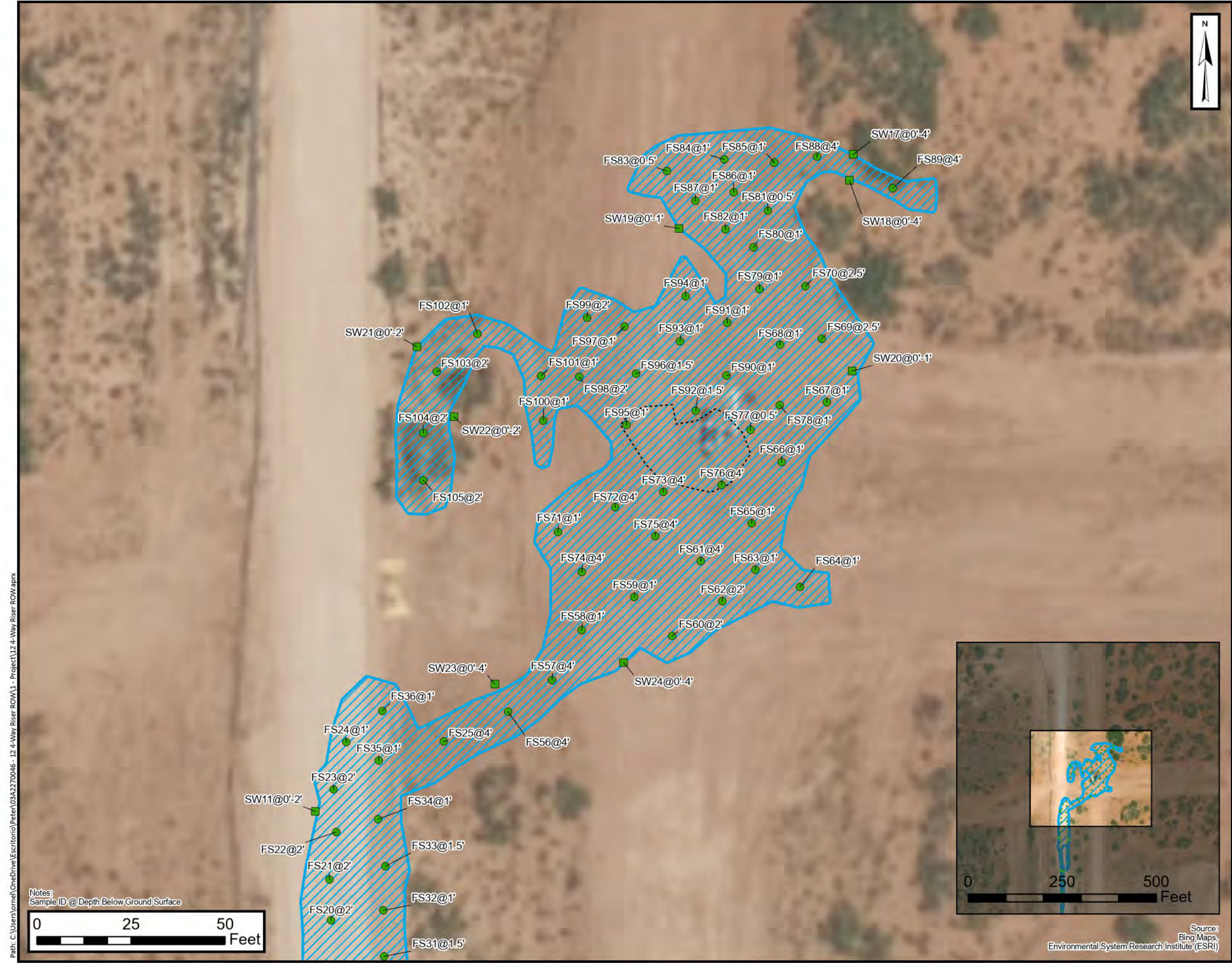


Delineation Soil Sample Locations

Matador Production Company
12" 4-Way Riser ROW
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Unit A, Section 06, T 22S, R 33E
Lea County, New Mexico

FIGURE

2



Legend

- Confirmation Soil Sample in Compliance with Site Closure Criteria
- Confirmation Sidewall Soil Sample in Compliance with Site Closure Criteria
- Header Location
- ▨ Excavation Extent

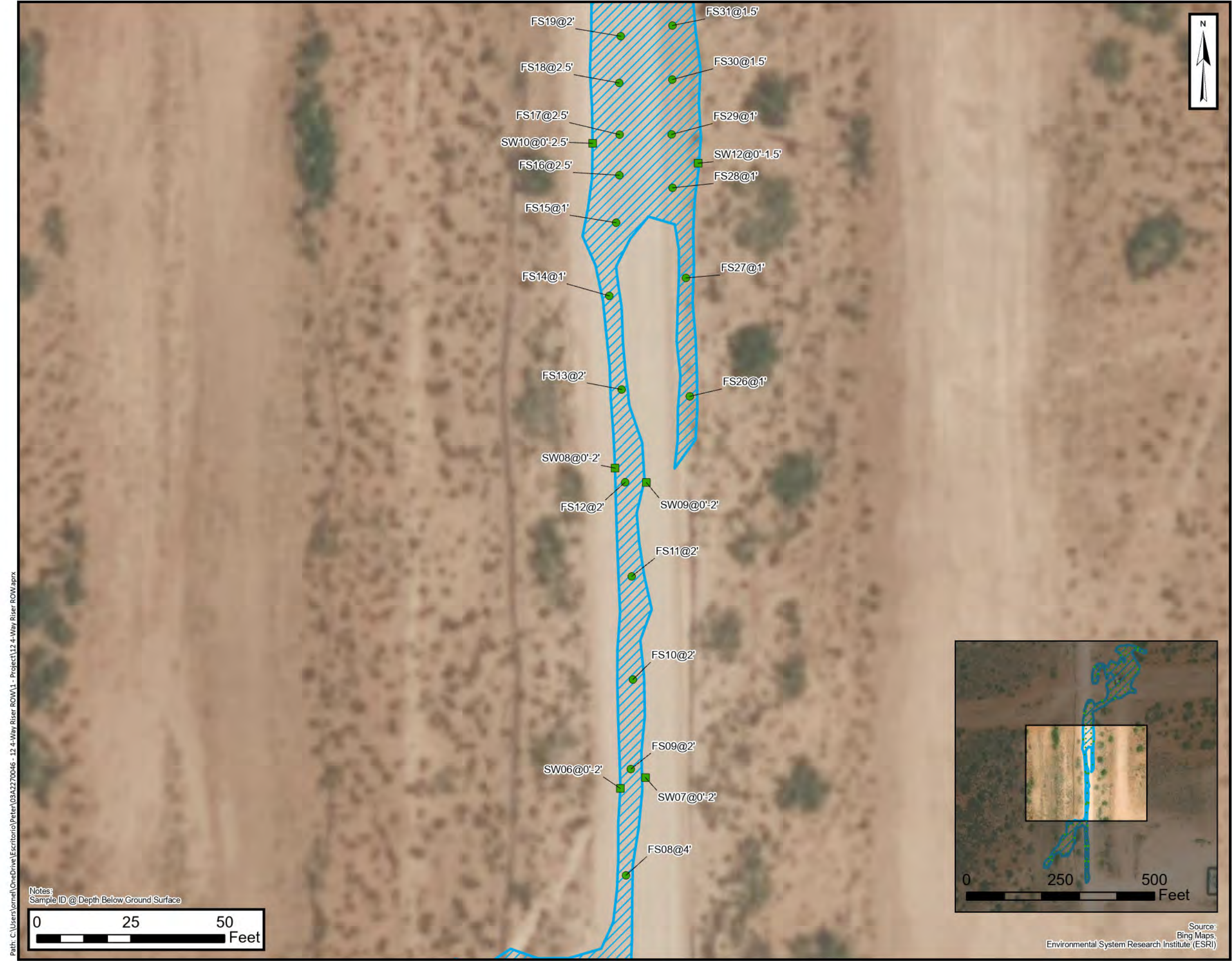


Confirmation Soil Sample Locations

Matador Production Company
12" 4-Way Riser ROW
Unit A, Sec 06, T 22S, R 33E
Eddy County, New Mexico

FIGURE 3A

Incident Number:
nAPP2412354447 & nAPP2413036737



Legend

- Confirmation Soil Sample in Compliance with Site Closure Criteria
- Confirmation Sidewall Soil Sample in Compliance with Site Closure Criteria
- ▨ Excavation Extent



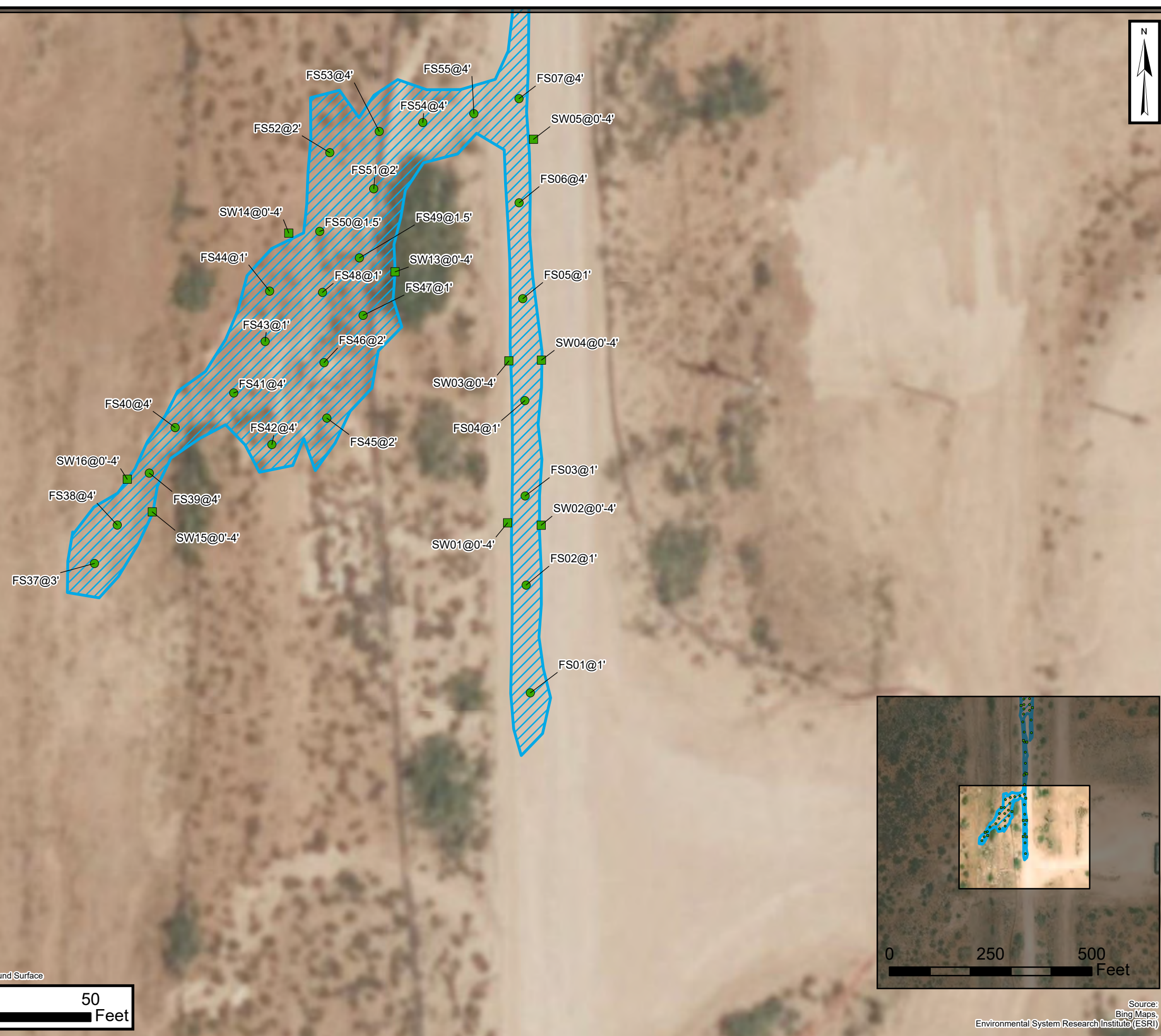
Confirmation Soil Sample Locations

Matador Production Company
12" 4-Way Riser ROW
Unit A, Sec 06, T 22S, R 33E
Eddy County, New Mexico

FIGURE 3B

Incident Number:
nAPP2412354447 & nAPP2413036737

Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\3 - Carlsbad\Matador Production Company\03A2270046 - 12 4-Way Riser ROW\1 - Project\12 4-Way Riser ROW.aprx



Legend

- Confirmation Soil Sample in Compliance with Site Closure Criteria
- Confirmation Sidewall Soil Sample in Compliance with Site Closure Criteria
- ▨ Excavation Extent



Confirmation Soil Sample Locations

Matador Production Company
12" 4-Way Riser ROW
Unit A, Sec 06, T 22S, R 33E
Eddy County, New Mexico

FIGURE 3C

Incident Number:
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TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 12" 4-Way Riser 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	20,000
Delineation Soil Samples										
SS01	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	68.5
SS02	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	106
SS03	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.2
SS04	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	44.5
SS05	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	127
SS06	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS07	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	42.4
SS08	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	321
SS09	5/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	396
BH01	5/21/2024	0	<0.0250	0.192	<20.0	5,790	2,090	5,790	7,880	7,720
BH01	5/21/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	32.0
BH02	5/21/2024	0	<0.0250	<0.0250	<20.0	25.5	<50.0	25.5	25.5	6,450
BH02	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	169
BH03	5/21/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	58.7
BH03	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH04	5/21/2024	0	<0.0250	<0.0250	<20.0	142	62.1	142	204.1	2,900
BH04	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.7
BH05	5/21/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	3,730
BH05	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	51.3
BH06	5/21/2024	0	<0.0250	<0.0250	<20.0	335	145	335	480	2,960
BH06	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	42.3
BH07	5/21/2024	0	<0.0250	<0.0250	<20.0	27.9	<50.0	27.9	27.9	190
BH07	5/21/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.5

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 12" 4-Way Riser 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	20,000
Confirmation Soil Samples										
FS01	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	71.2
FS02	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	286
FS03	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	516
FS04	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	499
FS05	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466
FS06	9/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	309
FS07	9/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,420
FS08	9/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,280
FS09	9/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
FS10	9/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	364
FS11	9/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	126
FS12	9/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76.5
FS13	9/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
FS14	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93.8
FS15	9/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.2
FS16	9/13/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	58.9
FS17	9/13/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.7
FS18	9/13/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.6
FS19	9/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.8
FS20	9/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS21	9/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.4
FS22	9/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	34.8
FS23	9/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.1
FS24	9/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.0
FS25	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
FS26	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.8
FS27	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	21.9
FS28	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.8
FS29	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	119
FS30	9/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	152
FS31	9/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	103
FS32	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 12" 4-Way Riser 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	20,000
Confirmation Soil Samples										
FS33	9/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	168
FS34	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108
FS35	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.9
FS36	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.5
FS37	9/17/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.1
FS38	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,940
FS39	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,760
FS40	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,290
FS41	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,430
FS42	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,270
FS43	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	317
FS44	9/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
FS45	9/17/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	388
FS46	9/17/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	251
FS47	9/17/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	170
FS48	9/17/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.9
FS49	9/17/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.2
FS50	9/17/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	67.4
FS51	9/17/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.0
FS52	9/17/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76.4
FS53	9/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,680
FS54	9/20/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,880
FS55	9/20/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,310
FS56	9/19/2024	4	<0.0250	<0.0500	<20.0	56.9	<50.0	56.9	56.9	334
FS57	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	700
FS58	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
FS59	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	339
FS60	9/20/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.8
FS61	9/19/2024	4	<0.0250	<0.0500	<20.0	65.7	55.0	65.7	120.7	518
FS62	9/20/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
FS63	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
FS64	9/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 12" 4-Way Riser 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	20,000
Confirmation Soil Samples										
FS65	9/19/2024	1	<0.0250	<0.0500	<20.0	53.4	<50.0	53.4	53.4	69.2
FS66	9/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.1
FS67	9/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	109
FS68	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.0
FS69	9/19/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS70	9/19/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25.4
FS71	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	137
FS72	9/19/2024	4	<0.0250	<0.0500	<20.0	358	195	358	553	892
FS73	9/23/2024	4	<0.0250	<0.0500	<20.0	728	376	728	1,104	2,550
FS74	9/23/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136
FS75	9/19/2024	4	<0.0250	<0.0500	<20.0	70.4	<50.0	70.4	70.4	535
FS76	9/19/2024	4	<0.0250	<0.0500	<20.0	259	139	295	398	1,490
FS77	9/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	273
FS78	9/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	60.8
FS79	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS80	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.2
FS81	9/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.8
FS82	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.4
FS83	9/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	208
FS84	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS85	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	283
FS86	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	186
FS87	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.9
FS88	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS89	9/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	419
FS90	9/19/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS91	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	33.5
FS92	9/19/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS93	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.1
FS94	9/20/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	284
FS95	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.1
FS96	9/19/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.3



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 12" 4-Way Riser 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	20,000
Confirmation Soil Samples										
FS97	9/23/2024	1	<0.0250	<0.0500	<20.0	46.6	<50.0	46.6	46.6	236
FS98	9/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.3
FS99	9/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
FS100	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS101	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.1
FS102	9/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.3
FS103	9/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
FS104	9/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.4
FS105	9/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<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

<: 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 3
SOIL SAMPLE ANALYTICAL RESULTS
 12" 4-Way Riser 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	20,000
Sidewall Soil Samples										
SW01	9/11/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.0
SW02	9/11/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
SW03	9/11/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	137
SW04	9/11/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	476
SW05	9/12/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	139
SW06	9/12/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	275
SW07	9/12/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
SW08	9/12/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	282
SW09	9/12/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
SW10	9/13/2024	0-2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	340
SW11	9/13/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.3
SW12	9/16/2024	0-1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.2
SW13	9/19/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	110
SW14	9/19/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	50.5
SW15	9/19/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.7
SW16	9/19/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.3
SW17	9/23/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	84.7
SW18	9/23/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.2
SW19	9/23/2024	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	153
SW20	9/23/2024	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	34.4
SW21	9/23/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.1
SW22	9/23/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.3
SW23	9/23/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.8
SW24	9/23/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.4

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

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Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log & Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1881			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suit 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 25	SECONDS 22 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	36	12 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec. 06 T22S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/12/2021	DRILLING ENDED 10/12/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1881	POD NO.	1	TRN NO.	699675
LOCATION	22S. 33E. 4. 242			WELL TAG ID NO.	

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, fine-grained, poorly graded with Caliche, Brown	Y ✓ N	
	14	19	5	Caliche, consolidated with fin-grained sand, White/Tan	Y ✓ N	
	19	24	5	Sand, fine-grained, poorly graded with Caliche, Reddish Brown	Y ✓ N	
	24	44	20	Sand, fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
	44	64	20	Sand, fine-grained, poorly graded with clay, Brown Tan	Y ✓ N	
	64	105	41	Sand, fine-grained, poorly graded with clay, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. <div style="text-align: right;">USE DTI NOV 2 2021 AM 9:14</div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10/27/2021 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4566			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suite 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 25	SECONDS 35.34	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE 103		38	21.54			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE Lot 1 Sec. 02 T22S R32E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/22/21		DRILLING ENDED 09/22/21		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4566	POD NO.	1	TRN NO.	703674
LOCATION	Mon 22S. 32E. 2. 221			WELL TAG ID NO.	

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, Fine-grained, poorly graded, Brownish Red Dry	Y ✓ N	
	14	24	10	Sand, Fine-grained, poorly graded, with gravel 0.25" Tan Dry	Y ✓ N	
	24	54	20	Sand, Fine-grained, poorly graded, Tan Red Dry	Y ✓ N	
	54	59	5	Sand, Fine-grained, poorly graded, caliche, Tan, Dry	Y ✓ N	
	59	105	46	Sand, Fine-grained, poorly graded, caliche, Red Brown, Dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10-21-2021 DATE

FOR USE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 06/30/2017)


FILE NO. C-4544	POD NO. 1	TRN NO. 703674
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2





APPENDIX B


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 5/21/24			
								Site Name: 12" 4-Way Riser ROW					
								Incident Number: nAPP2413036737					
								Job Number: 03A2270046					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.428000, -103.604017								Hole Diameter: 3"		Total Depth: 3'			
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	0	SP-SM	Moist, Sand, No Staining					
M	3,304		N	BH01	1	1	SP-SM	Moist, Sand, No Staining					
M	ND		N	BH01	2	2	SP-SM	Moist, Sand, No Staining					
D	ND		N	BH01	3	3	CCHE	Dry, Caliche, No Staining					
Total Depth 3'													


								Sample Name: BH02		Date: 5/21/24	
								Site Name: 12" 4-Way Riser ROW			
								Incident Number: nAPP2413036737			
								Job Number: 03A2270046			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.427807, -103.604018								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			N	BH02	0	0	SP-SM	Moist, Sand, No Staining			
M	ND		N	BH02	1	1	SP-SM	Moist, Sand, No Staining			
Total Depth at 1 foot bgs.											

								Sample Name: BH03		Date: 5/21/24	
								Site Name: 12" 4-Way Riser ROW			
								Incident Number: nAPP2413036737			
								Job Number: 03A2270046			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.427833, -103.604301								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			
D			Y	BH03	0	0	SP-SM	Dry, Sand, Low Stain			
M	ND		N	BH03	1	1	SP-SM	Moist. Sand. No Staining			
Total Depth at 1 foot bgs.											

								Sample Name: BH04		Date: 5/21/24	
								Site Name: 12" 4-Way Riser ROW			
								Incident Number: nAPP2413036737			
								Job Number: 03A2270046			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.427570, -103.604346								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			
D			Y	BH04	0	0	SP-SM	Dry, Sand, Low Stain			
M	ND		N	BH04	1	1	SP-SM	Moist. Sand. No Staining			
Total Depth at 1 foot bgs.											

								Sample Name: BH05		Date: 5/21/24	
								Site Name: 12" 4-Way Riser ROW			
								Incident Number: nAPP2413036737			
								Job Number: 03A2270046			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.426616, -103.604548								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			
D			N	BH05	0	0	SP-SM	Dry, Sand, No Stain			
D	ND		N	BH05	1	1	SP-SM	Dry, Sand, No Staining			
Total Depth at 1 foot bgs.											

								Sample Name: BH06		Date: 5/21/24			
								Site Name: 12" 4-Way Riser ROW					
								Incident Number: nAPP2413036737					
								Job Number: 03A2270046					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.426354, -103.604391								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					
D			N	BH06	0	0	SP-SM	Dry, Caliche, Low Stain					
D	ND		N	BH06	1	1	SP-SM	Dry, Sand, No Staining					
Total Depth at 1 foot bgs.													

								Sample Name: BH07		Date: 5/21/24			
								Site Name: 12" 4-Way Riser ROW					
								Incident Number: nAPP2413036737					
								Job Number: 03A2270046					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger			
Coordinates: 32.427726, -103.604127								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					
D			N	BH07	0	0	SP-SM	Dry, Sand, No Stain					
M	ND		N	BH07	1	1	SP-SM	Moist. Sand. No Staining					
Total Depth at 1 foot bgs.													



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737

North Elevation

201°S (T) LAT: 32.428101 LON: -103.604061 ±13ft ▲ 3692ft



Initial Spill Area
Ensolum, LLC

05-02-2024, 10:37:22

Photograph 1

Date: 05/02/2024

Description: Initial Release (nAPP2412354447)

View: North

West Elevation

112°E (T) LAT: 32.428064 LON: -103.604053 ±13ft ▲ 3692ft



Initial Spill Area
Ensolum, LLC

05-02-2024, 10:37:36

Photograph 2

Date: 05/02/2024

Description: Initial Release (nAPP2412354447)

View: West

North Elevation

164°S (T) LAT: 32.428058 LON: -103.604045 ±13ft ▲ 3694ft



Initial Spill Area
Ensolum, LLC

05-02-2024, 10:37:41

Photograph 3

Date: 05/02/2024

Description: Initial Release (nAPP2412354447)

View: North

North Elevation

184°S (T) LAT: 32.427687 LON: -103.604349 ±13ft ▲ 3689ft



Initial Spill Area
Ensolum, LLC

05-02-2024, 10:38:47

Photograph 4

Date: 05/02/2024

Description: Initial Release (nAPP2412354447)

View: North



Photographic Log

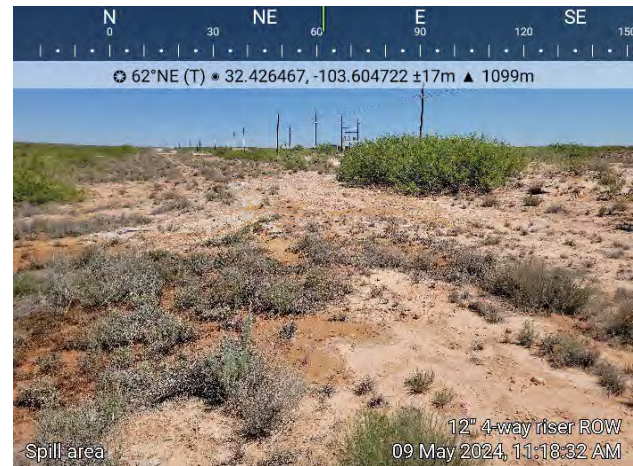
Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 5 Date: 05/02/2024
Description: Initial Release (nAPP2413036737)
View: South



Photograph 6 Date: 05/02/2024
Description: Initial Release (nAPP2413036737)
View: Northeast



Photograph 7 Date: 05/02/2024
Description: Initial Release (nAPP2413036737)
View: Southwest



Photograph 8 Date: 05/02/2024
Description: Initial Release (nAPP2413036737)
View: East



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 9 Date: 05/20/2024
Description: Lateral Delineation Sampling
View: West



Photograph 10 Date: 05/20/2024
Description: Lateral Delineation Sampling
View: Southeast



Photograph 11 Date: 05/20/2024
Description: Lateral Delineation Sampling
View: North



Photograph 12 Date: 05/21/2024
Description: Vertical Delineation Sampling (BH01)
View: South



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 13 Date: 05/21/2024
Description: Vertical Delineation Sampling (BH02)
View: West



Photograph 14 Date: 05/21/2024
Description: Vertical Delineation Sampling (BH03)
View: East



Photograph 15 Date: 05/21/2024
Description: Vertical Delineation Sampling (BH05)
View: Northeast



Photograph 16 Date: 05/21/2024
Description: Vertical Delineation Sampling (BH07)
View: Northeast



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737

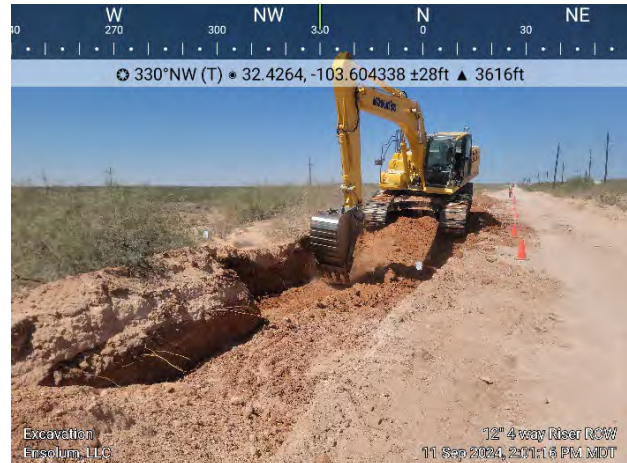


Photograph 17

Date: 9/11/2024

Description: Road Excavation

View: North



Photograph 18

Date: 9/11/2024

Description: Road Excavation

View: Northwest



Photograph 19

Date: 9/11/2024

Description: Road Excavation

View: Northwest



Photograph 20

Date: 9/11/2024

Description: Backfilling the road at the end of the day

View: Southwest



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 21 Date: 9/12/2024
Description: Road Excavation
View: Northeast



Photograph 22 Date: 05/21/2024
Description: Hydrovacing Lines in the field
View: West



Photograph 23 Date: 9/12/2024
Description: Road Excavation
View: Northwest



Photograph 24 Date: 9/12/2024
Description: Road Excavation
View: South



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 25

Date: 09/13/2024

Description: Road Excavation

View: Southwest



Photograph 26

Date: 09/13/2024

Description: Start of field excavation

View: North



Photograph 27

Date: 09/16/2024

Description: Road Excavation

View: North



Photograph 28

Date: 09/16/2024

Description: Road Backfilled

View: North



Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 29

Date: 09/17/2024

Description: Field Excavation

View: South



Photograph 30

Date: 09/13/2024

Description: Field Excavation

View: Northwest



Photograph 31

Date: 09/18/2024

Description: Excavation

View: East



Photograph 32

Date: 09/18/2024

Description: Excavation near riser

View: South

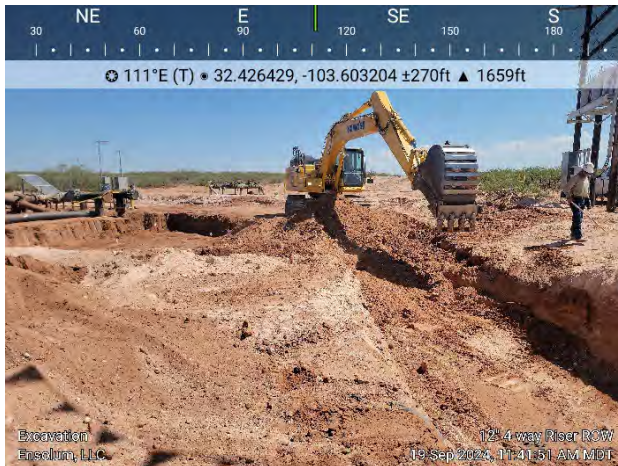


Photographic Log

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



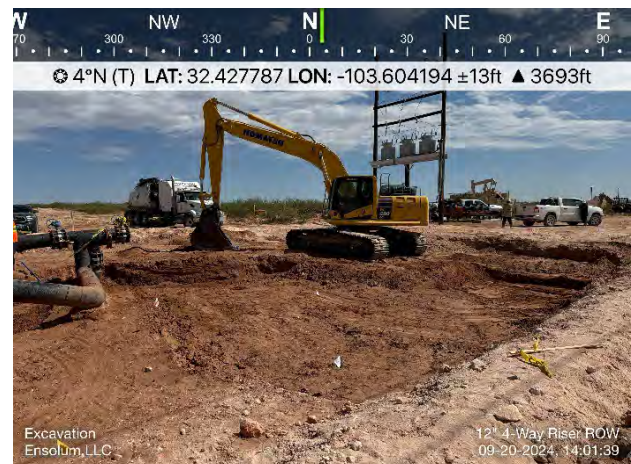
Photograph 33 Date: 09/19/2024
Description: Excavation Near Riser
View: East



Photograph 34 Date: 09/19/2024
Description: Excavation Near Riser
View: North



Photograph 35 Date: 09/20/2024
Description: Excavation Near Road
View: East



Photograph 36 Date: 09/20/2024
Description: Excavation Near Riser
View: North

**Photographic Log**

Matador Production Company

12" 4-Way Riser ROW

nAPP2412354447 & nAPP2413036737



Photograph 37

Date: 09/23/2024

Description: Excavation

View: Southwest



Photograph 38

Date: 09/23/2024

Description: Excavation

View: Southwest



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: 12 inch 4-Way Riser

Work Order: E405307

Job Number: 23003-0002

Received: 5/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/4/24

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: 6/4/24



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

Project Name: 12 inch 4-Way Riser
Workorder: E405307
Date Received: 5/22/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2024 9:00:00AM, under the Project Name: 12 inch 4-Way Riser.

The analytical test results summarized in this report with the Project Name: 12 inch 4-Way Riser 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Custody Officer
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/04/24 13:08
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E405307-01A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS02 - 0'	E405307-02A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS03 - 0'	E405307-03A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS04 - 0'	E405307-04A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS05 - 0'	E405307-05A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS06 - 0'	E405307-06A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS07 - 0'	E405307-07A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS08 - 0'	E405307-08A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS09 - 0'	E405307-09A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/4/2024 1:08:43PM

SS01 - 0'

E405307-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2421162
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	05/24/24	05/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	05/24/24	05/31/24	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2421162
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	05/24/24	05/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	05/24/24	05/31/24	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2422091
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422040
Chloride	68.5	20.0	1	05/29/24	05/29/24	



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/4/2024 1:08:43PM

SS02 - 0'

E405307-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.6 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.6 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	100 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	106	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS03 - 0'

E405307-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.8 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.8 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	104 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	28.2	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS04 - 0'

E405307-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.6 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.6 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	105 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	44.5	20.0	1	05/29/24	05/29/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS05 - 0'

E405307-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.1 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.1 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	104 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	127	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS06 - 0'

E405307-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.0 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.0 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	101 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	ND	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS07 - 0'

E405307-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.5 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.5 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	103 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	42.4	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS08 - 0'

E405307-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.1 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421162	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	95.1 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2422091	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	99.3 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422040	
Chloride	321	20.0	1	05/29/24	05/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/4/2024 1:08:43PM
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SS09 - 0'

E405307-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA			Batch: 2421162
Benzene	ND	0.0250	1	05/24/24	05/31/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/31/24	
Toluene	ND	0.0250	1	05/24/24	05/31/24	
o-Xylene	ND	0.0250	1	05/24/24	05/31/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/31/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.2 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA			Batch: 2421162
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/31/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		05/24/24	05/31/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		05/24/24	05/31/24	
Surrogate: Toluene-d8	96.2 %	70-130		05/24/24	05/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH			Batch: 2422091
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/04/24	
Surrogate: n-Nonane	104 %	50-200		05/30/24	06/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY			Batch: 2422040
Chloride	396	20.0	1	05/29/24	05/29/24	



Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/4/2024 1:08:43PM

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 (2421162-BLK1) Prepared: 05/24/24 Analyzed: 05/31/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

LCS (2421162-BS1) Prepared: 05/24/24 Analyzed: 05/31/24

Benzene	2.34	0.0250	2.50		93.4	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.27	0.0250	2.50		91.0	70-130			
o-Xylene	2.15	0.0250	2.50		85.9	70-130			
p,m-Xylene	4.50	0.0500	5.00		90.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

LCS Dup (2421162-BSD1) Prepared: 05/24/24 Analyzed: 05/31/24

Benzene	2.53	0.0250	2.50		101	70-130	8.05	23	
Ethylbenzene	2.63	0.0250	2.50		105	70-130	9.09	27	
Toluene	2.49	0.0250	2.50		99.7	70-130	9.15	24	
o-Xylene	2.46	0.0250	2.50		98.3	70-130	13.4	27	
p,m-Xylene	5.14	0.0500	5.00		103	70-130	13.4	27	
Total Xylenes	7.60	0.0250	7.50		101	70-130	13.4	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/4/2024 1:08:43PM

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 (2421162-BLK1) Prepared: 05/24/24 Analyzed: 05/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

LCS (2421162-BS2) Prepared: 05/24/24 Analyzed: 05/31/24

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

LCS Dup (2421162-BSD2) Prepared: 05/24/24 Analyzed: 05/31/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130	3.79	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/4/2024 1:08:43PM

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 (2422091-BLK1)					Prepared: 05/30/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2422091-BS1)					Prepared: 05/30/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	318	25.0	250		127	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS Dup (2422091-BSD1)					Prepared: 05/30/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	316	25.0	250		126	38-132	0.717	20	
Surrogate: n-Nonane	50.6		50.0		101	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/4/2024 1:08:43PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422040-BLK1)					Prepared: 05/29/24 Analyzed: 05/29/24				
Chloride	ND	20.0							
LCS (2422040-BS1)					Prepared: 05/29/24 Analyzed: 05/29/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2422040-BSD1)					Prepared: 05/29/24 Analyzed: 05/29/24				
Chloride	258	20.0	250		103	90-110	0.353	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:	12 inch 4-Way Riser	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/04/24 13:08

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

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

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

Client: Matador Production Company					Bill To					Lab Use Only					TAT				EPA Program								
Project: 12 Inch 4-Way Riser					Attention: Ensolum LLC					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Ashley Giovengo					Address: on file					F405307		23003-0001						x									
Address: 3122 National Parks Hwy					City, State, Zip:					Analysis and Method												RCRA					
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055					TPH GRO/DRO/TORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State									
Phone: 575-988-0055					Email: agiovengo@ensolum.com													NM	CO	UT	AZ	TX					
Email: agiovengo@ensolum.com					Report due by:													x									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks									
12:36	5/20/2024	Soil	1	SS01 - 0'	1										x												
12:37	5/20/2024	Soil	1	SS02 - 0'	2										x												
12:39	5/20/2024	Soil	1	SS03 - 0'	3										x												
12:42	5/20/2024	Soil	1	SS04 - 0'	4										x												
12:45	5/20/2024	Soil	1	SS05 - 0'	5										x												
12:47	5/20/2024	Soil	1	SS06 - 0'	6										x												
12:50	5/20/2024	Soil	1	SS07 - 0'	7										x												
12:52	5/20/2024	Soil	1	SS08 - 0'	8										x												
12:56	5/20/2024	Soil	1	SS09 - 0'	9										x												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com, iestrella@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																	
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only									
[Signature]					5/21/24		8:21		Michelle Gonzales					5-21-24		0821		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		
Michelle Gonzales					5-21-24		1650		[Signature]					5-21-24		1650											
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C									
[Signature]					5-21-24		1300		[Signature]					5/22/24		900		4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

Envirotech Analytical Laboratory

Printed: 5/25/2024 2:13:44PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/22/24 09:00	Work Order ID:	E405307
Phone:	(972) 371-5200	Date Logged In:	05/21/24 18:04	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	05/30/24 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: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 inch 4-Way Riser

Work Order: E405329

Job Number: 23003-0002

Received: 5/23/2024

Revision: 2

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: 12 inch 4-Way Riser
Workorder: E405329
Date Received: 5/23/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2024 6:00:00AM, under the Project Name: 12 inch 4-Way Riser.

The analytical test results summarized in this report with the Project Name: 12 inch 4-Way Riser 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/06/24 14:20
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E405329-01A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH01 - 2'	E405329-02A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH02 - 0'	E405329-03A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH02 - 1'	E405329-04A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH03 - 0'	E405329-05A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH03 - 1'	E405329-06A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH04 - 0'	E405329-07A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH04 - 1'	E405329-08A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH05 - 0'	E405329-09A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH05 - 1'	E405329-10A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH06 - 0'	E405329-11A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH06 - 1'	E405329-12A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH07 - 0'	E405329-13A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
BH07 - 1'	E405329-14A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.

Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/6/2024 2:20:12PM

BH01 - 0'

E405329-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	0.192	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	05/28/24	06/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.0 %	70-130	05/28/24	06/02/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	05/28/24	06/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.0 %	70-130	05/28/24	06/02/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	5790	125	5	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	2090	250	5	06/01/24	06/03/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	7720	200	10	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH01 - 2'

E405329-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	104 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	106 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	104 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	106 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane	99.7 %	50-200		06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	32.0	20.0	1	05/29/24	05/30/24	



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/6/2024 2:20:12PM

BH02 - 0'

E405329-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	104 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	104 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	25.5	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane	91.2 %	50-200		06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	6450	100	5	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH02 - 1'

E405329-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		107 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		107 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		97.5 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	169	20.0	1	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH03 - 0'

E405329-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		102 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	58.7	20.0	1	05/29/24	05/30/24	



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/6/2024 2:20:12PM

BH03 - 1'

E405329-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	109 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	105 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	109 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	105 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane	104 %	50-200		06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	ND	20.0	1	05/29/24	05/30/24	



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/6/2024 2:20:12PM

BH04 - 0'

E405329-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	142	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	62.1	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		96.6 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	2900	40.0	2	05/29/24	05/30/24	



Sample Data

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

Project Name: 12 inch 4-Way Riser
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/6/2024 2:20:12PM

BH04 - 1'

E405329-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	109 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	105 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	109 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	105 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane	103 %	50-200		06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	22.7	20.0	1	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH05 - 0'

E405329-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		103 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	3730	40.0	2	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH05 - 1'

E405329-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		104 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		104 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		107 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	51.3	20.0	1	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH06 - 0'

E405329-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		106 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	335	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	145	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		100 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	2960	40.0	2	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH06 - 1'

E405329-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		105 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		105 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		99.0 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	42.3	20.0	1	05/29/24	05/30/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH07 - 0'

E405329-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		105 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	05/28/24	06/02/24	
Surrogate: Toluene-d8		105 %	70-130	05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	27.9	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane		105 %	50-200	06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	190	20.0	1	05/29/24	05/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 inch 4-Way Riser Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/6/2024 2:20:12PM
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BH07 - 1'

E405329-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Benzene	ND	0.0250	1	05/28/24	06/02/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/02/24	
Toluene	ND	0.0250	1	05/28/24	06/02/24	
o-Xylene	ND	0.0250	1	05/28/24	06/02/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/02/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	106 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/02/24	
Surrogate: Bromofluorobenzene	108 %	70-130		05/28/24	06/02/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		05/28/24	06/02/24	
Surrogate: Toluene-d8	106 %	70-130		05/28/24	06/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/03/24	
Surrogate: n-Nonane	106 %	50-200		06/01/24	06/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2422047	
Chloride	34.5	20.0	1	05/29/24	05/30/24	



Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 2:20:12PM

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 (2422022-BLK1) Prepared: 05/28/24 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	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.425		0.500		84.9	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2422022-BS1) Prepared: 05/28/24 Analyzed: 06/01/24

Benzene	2.20	0.0250	2.50		87.9	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.41	0.0250	2.50		96.6	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.15	0.0500	5.00		103	70-130			
Total Xylenes	7.72	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS Dup (2422022-BSD1) Prepared: 05/28/24 Analyzed: 06/01/24

Benzene	2.24	0.0250	2.50		89.6	70-130	1.92	23	
Ethylbenzene	2.47	0.0250	2.50		98.6	70-130	1.76	27	
Toluene	2.45	0.0250	2.50		97.8	70-130	1.32	24	
o-Xylene	2.63	0.0250	2.50		105	70-130	2.09	27	
p,m-Xylene	5.20	0.0500	5.00		104	70-130	1.11	27	
Total Xylenes	7.83	0.0250	7.50		104	70-130	1.44	27	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 2:20:12PM

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 (2422022-BLK1) Prepared: 05/28/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.425		0.500		84.9	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2422022-BS2) Prepared: 05/28/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS Dup (2422022-BSD2) Prepared: 05/28/24 Analyzed: 06/02/24

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130	2.22	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.5	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 2:20:12PM

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 (2422123-BLK1)					Prepared: 06/01/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.8		50.0		99.6	50-200			

LCS (2422123-BS1)					Prepared: 06/01/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

LCS Dup (2422123-BSD1)					Prepared: 06/01/24 Analyzed: 06/03/24				
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132	3.67	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 inch 4-Way Riser	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/6/2024 2:20:12PM

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 (2422047-BLK1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	ND	20.0							
LCS (2422047-BS1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2422047-BSD1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	245	20.0	250		98.2	90-110	1.98	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:	12 inch 4-Way Riser	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/06/24 14:20

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

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

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



Client: Matador Production Company		Bill To		Lab Use Only		TAT		EPA Program	
Project: 12 Inch 4-Way Riser		Attention: Ensolum LLC		Lab WO# E 405329		Job Number 02003-0002		CWA	
Project Manager: Ashley Giovengo		Address: on file				1D 2D 3D		SDWA	
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method		Standard		RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055				x			
Phone: 575-988-0055		Email: agiovengo@ensolum.com							
Email: agiovengo@ensolum.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BDOC NM	GDOC TX	Remarks
9:54	5/21/2024	Soil	1	BH01 -0'	1							X		
11:14	5/21/2024	Soil	1	BH01 -2'	2							X		
9:59	5/21/2024	Soil	1	BH02 -0'	3							X		
10:01	5/21/2024	Soil	1	BH02 -1'	4							X		
10:07	5/21/2024	Soil	1	BH03 -0'	5							X		
10:09	5/21/2024	Soil	1	BH03 -1'	6							X		
10:14	5/21/2024	Soil	1	BH04 -0'	7							X		
10:19	5/21/2024	Soil	1	BH04 -1'	8							X		
10:22	5/21/2024	Soil	1	BH05 -0'	9							X		
10:24	5/21/2024	Soil	1	BH05 -1'	10							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Sampled by:											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>[Signature]</i>	5/22/24	10:45	Michelle Gonzales	5-22-24	1045	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					
Michelle Gonzales	5-22-24	1545	<i>[Signature]</i>	5-22-24	1745						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>[Signature]</i>	5-22-24	2400	<i>[Signature]</i>	5/23/24	0600	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 10/30/2024 3:59:26 PM

Received by OCD: 10/11/2024 3:17:47 PM

22 of 52 pages

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envirotech

Envirotech Analytical Laboratory

Printed: 5/28/2024 8:11:41AM

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:	05/23/24 06:00	Work Order ID:	E405329
Phone:	(972) 371-5200	Date Logged In:	05/23/24 10:20	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	05/30/24 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: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409093

Job Number: 23003-0002

Received: 9/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/17/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409093
Date Received: 9/13/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

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

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Client Representative
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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/17/24 11:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 -1'	E409093-01A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
FS02 -1'	E409093-02A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
FS03 -4'	E409093-03A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
FS04 -4'	E409093-04A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
FS05 -4'	E409093-05A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SW01 - 0-4'	E409093-06A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SW02 - 0-4'	E409093-07A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SW03 - 0-4'	E409093-08A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SW04 - 0-4'	E409093-09A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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FS01 -1'

E409093-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437091	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		80.6 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437096	
Chloride	71.2	20.0	1	09/13/24	09/13/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:55:11AM

FS02 -1'

E409093-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		77.7 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	286	20.0	1	09/13/24	09/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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FS03 -4'
E409093-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		79.1 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	516	20.0	1	09/13/24	09/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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FS04 -4'

E409093-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		79.0 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	499	20.0	1	09/13/24	09/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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FS05 -4'
E409093-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		80.7 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	466	20.0	1	09/13/24	09/13/24	

Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:55:11AM

SW01 - 0-4'

E409093-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		77.0 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	39.0	20.0	1	09/13/24	09/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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SW02 - 0-4'
E409093-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		73.4 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	290	20.0	1	09/13/24	09/13/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:55:11AM

SW03 - 0-4'

E409093-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		79.7 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	137	20.0	1	09/13/24	09/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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SW04 - 0-4'
E409093-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8	109 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/13/24	09/13/24	
Surrogate: Toluene-d8	109 %	70-130		09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437091	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane	77.4 %	50-200		09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437096	
Chloride	476	20.0	1	09/13/24	09/13/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:55:11AM

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 (2437075-BLK1) Prepared: 09/13/24 Analyzed: 09/13/24

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	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2437075-BS1) Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	2.16	0.0250	2.50		86.2	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.65	0.0500	5.00		92.9	70-130			
Total Xylenes	6.96	0.0250	7.50		92.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2437075-MS1) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	2.12	0.0250	2.50	ND	84.7	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135			
Toluene	2.30	0.0250	2.50	ND	91.9	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.4	43-135			
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135			
Total Xylenes	6.86	0.0250	7.50	ND	91.4	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2437075-MSD1) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	1.87	0.0250	2.50	ND	74.9	48-131	12.3	23	
Ethylbenzene	2.05	0.0250	2.50	ND	82.0	45-135	12.3	27	
Toluene	2.05	0.0250	2.50	ND	82.2	48-130	11.1	24	
o-Xylene	2.07	0.0250	2.50	ND	82.9	43-135	9.68	27	
p,m-Xylene	4.13	0.0500	5.00	ND	82.6	43-135	10.1	27	
Total Xylenes	6.21	0.0250	7.50	ND	82.7	43-135	9.98	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:55:11AM

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 (2437075-BLK1) Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2437075-BS2) Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2437075-MS2) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike Dup (2437075-MSD2) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	2.08	20	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:55:11AM

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 (2437091-BLK1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			

LCS (2437091-BS1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	200	25.0	250		80.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.3	50-200			

Matrix Spike (2437091-MS1) Source: E409093-09 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	207	25.0	250	ND	83.0	38-132			
Surrogate: n-Nonane	40.4		50.0		80.7	50-200			

Matrix Spike Dup (2437091-MSD1) Source: E409093-09 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.4	38-132	1.88	20	
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:55:11AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2437096-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437096-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2437096-MS1)					Source: E409093-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	751	20.0	250	466	114	80-120			
Matrix Spike Dup (2437096-MSD1)					Source: E409093-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	708	20.0	250	466	96.9	80-120	5.82	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/17/24 11:55

- 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

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Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# E 409093				Job Number 23003-0002				NM CO UT TX			
Project: 12" 4-Way Riser Row				Address: 3122 National Parks Hwy								1D 2D 3D Std							
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		
															Compliance	Y	or N		
															PWSID #				
															Remarks				
1016	9/11/2024	Soil	1	FS01-1'		1						X							
1024	9/11/2024	Soil	1	FS02-1'		2						X							
1304	9/11/2024	Soil	1	FS03-4'		3						X							
1320	9/11/2024	Soil	1	FS04-4'		4						X							
1516	9/11/2024	Soil	1	FS05-4' FS05-4'		5						X							
1260	9/11/2024	Soil	1	SW01-0-4'		6						X							
1210	9/11/2024	Soil	1	SW02-0-4'		7						X							
1337	9/11/2024	Soil	1	SW03-0-4'		8						X							
1330	9/11/2024	Soil	1	SW04-0-4'		9						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Brandon Deal																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Michelle Gonzales		9/12/2024	10:15	Michelle Gonzales		9-12-24	1015												
Michelle Gonzales		9-13-24	0220	Caitlin Mann		9-13-24	7:45	Lab Use Only											
								Received on ice: (Y) N											
								T1 T2 T3											
								AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 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

Received by OCD: 10/11/2024 3:17:47 PM

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Envirotech Analytical Laboratory

Printed: 9/13/2024 9:01:35AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/13/24 07:45	Work Order ID:	E409093
Phone:	(972) 371-5200	Date Logged In:	09/12/24 12:56	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/19/24 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: 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: 12 Inch 4-Way Riser Row

Work Order: E409116

Job Number: 23003-0002

Received: 9/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/19/24

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: 9/19/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409116
Date Received: 9/16/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/16/2024 7:30:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/19/24 16:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 - 4'	E409116-01A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS07 - 4'	E409116-02A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS08 - 4'	E409116-03A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS09 - 2'	E409116-04A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS10 - 2'	E409116-05A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS11 - 2'	E409116-06A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS12 - 2'	E409116-07A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS13 - 2'	E409116-08A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS14 - 1'	E409116-09A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
FS15 - 1'	E409116-10A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SW05 - 0-4'	E409116-11A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SW06 - 0-2'	E409116-12A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SW07 - 0-2'	E409116-13A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SW08 - 0-2'	E409116-14A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.
SW09 - 0-2'	E409116-15A	Soil	09/12/24	09/16/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS06 - 4'

E409116-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	88.3 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	309	20.0	1	09/16/24	09/16/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS07 - 4'

E409116-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	91.8 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	1420	20.0	1	09/16/24	09/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS08 - 4'

E409116-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	89.8 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	2280	20.0	1	09/16/24	09/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS09 - 2'

E409116-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
<i>Surrogate: n-Nonane</i>	94.8 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	299	20.0	1	09/16/24	09/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS10 - 2'

E409116-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	90.0 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	364	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS11 - 2'

E409116-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	87.6 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	126	20.0	1	09/16/24	09/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS12 - 2'

E409116-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	90.4 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	76.5	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS13 - 2'

E409116-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
Surrogate: n-Nonane	80.6 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	159	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS14 - 1'

E409116-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/16/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		09/14/24	09/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	93.8	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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FS15 - 1'

E409116-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
Surrogate: n-Nonane	90.9 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	75.2	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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SW05 - 0-4'
E409116-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	86.2 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	139	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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SW06 - 0-2'
E409116-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	275	20.0	1	09/16/24	09/17/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/19/2024 4:52:01PM

SW07 - 0-2'

E409116-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	118	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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SW08 - 0-2'
E409116-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	282	20.0	1	09/16/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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SW09 - 0-2'
E409116-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Benzene	ND	0.0250	1	09/16/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/16/24	09/17/24	
Toluene	ND	0.0250	1	09/16/24	09/17/24	
o-Xylene	ND	0.0250	1	09/16/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/16/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/16/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/16/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		09/16/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437110	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		09/14/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438019	
Chloride	107	20.0	1	09/16/24	09/17/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/19/2024 4:52:01PM

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 (2438007-BLK1)Prepared: 09/16/24 Analyzed: 09/17/24

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	7.82		8.00		97.7	70-130			

LCS (2438007-BS1)Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	5.59	0.0250	5.00		112	70-130			
Ethylbenzene	5.39	0.0250	5.00		108	70-130			
Toluene	5.51	0.0250	5.00		110	70-130			
o-Xylene	5.37	0.0250	5.00		107	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2438007-MS1)Source: E409116-07Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	5.57	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133			
Toluene	5.49	0.0250	5.00	ND	110	61-130			
o-Xylene	5.36	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	70-130			

Matrix Spike Dup (2438007-MSD1)Source: E409116-07Prepared: 09/16/24 Analyzed: 09/17/24

Benzene	5.19	0.0250	5.00	ND	104	54-133	7.13	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	6.70	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	7.12	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	6.79	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	6.67	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	6.71	20	
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/19/2024 4:52:01PM

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 (2438007-BLK1) Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2438007-BS2) Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

Matrix Spike (2438007-MS2) Source: E409116-07 Prepared: 09/16/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2438007-MSD2) Source: E409116-07 Prepared: 09/16/24 Analyzed: 09/18/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130	1.63	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/19/2024 4:52:01PM

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 (2437110-BLK1) Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.7	50-200			

LCS (2437110-BS1) Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.8	38-132			
Surrogate: n-Nonane	49.3		50.0		98.7	50-200			

Matrix Spike (2437110-MS1) Source: E409116-02 Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.5	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike Dup (2437110-MSD1) Source: E409116-02 Prepared: 09/14/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.8	38-132	0.707	20	
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/19/2024 4:52:01PM
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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 (2438019-BLK1)					Prepared: 09/16/24 Analyzed: 09/16/24				
Chloride	ND	20.0							
LCS (2438019-BS1)					Prepared: 09/16/24 Analyzed: 09/16/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2438019-MS1)					Source: E409116-06		Prepared: 09/16/24 Analyzed: 09/16/24		
Chloride	350	20.0	250	126	89.7	80-120			
Matrix Spike Dup (2438019-MSD1)					Source: E409116-06		Prepared: 09/16/24 Analyzed: 09/16/24		
Chloride	351	20.0	250	126	90.2	80-120	0.307	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/19/24 16:52

- 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#		1D 2D 3D Std				NM CO UT TX					
Project: 12" 4 Way Riser Row				Address: 3122 National Parks Hwy		E 409116		Job Number				230030002					
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agioveno@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
0942	9/12/2024	Soil	1	FS06-4'		1						X					
0945	9/12/2024	Soil	1	FS07-4'		2						X					
0947	9/12/2024	Soil	1	FS08-4'		3						X					
1027	9/12/2024	Soil	1	FS09-2'		4						X					
1127	9/12/2024	Soil	1	FS10-2'		5						X					
1305	9/12/2024	Soil	1	FS11-2'		6						X					
1306	9/12/2024	Soil	1	FS12-2'		7						X					
1311	9/12/2024	Soil	1	FS13-2'		8						X					
1409	9/12/2024	Soil	1	FS14-1'		9						X					
1415	9/12/2024	Soil	1	FS15-1'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		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.																	



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Client Information						Invoice Information						Lab Use Only								TAT				State							
Client: Matador Company						Company: Ensolum LLC						Lab WO#				Job Number				1D	2D	3D	Std	NM	CO	UT	TX				
Project: 12" 4 Way River Row						Address: 3122 National Parks Hwy						E 409116				23053-002							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														
1130	9/12/2024	Soil	1	SW05-0-4'		11						X																			
1135	9/12/2024	soil	1	SW06-0-2'		12						X																			
1142	9/12/2024	Soil	1	SW07-0-2'		13						X																			
1340	9/12/2024	Soil	1	SW08-0-2'		14						X																			
1321	9/12/2024	Soil	1	SW09-0-2'		15						X																			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																															
Sampled by: Brandon Deal																															
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																									
[Signature]	9/13/2024	1445	[Signature]	9.13.24	1445	<div>Lab Use Only</div> <div>Received on ice: (Y) / N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C 4</div>																									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																										
[Signature]	9.13.24	1600	[Signature]	9.13.24	1800																										
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																										
[Signature]	9.13.24	2400	[Signature]	9.16.24	7:30																										
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.																															



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Envirotech Analytical Laboratory

Printed: 9/16/2024 10:36:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/16/24 07:30	Work Order ID:	E409116
Phone:	(972) 371-5200	Date Logged In:	09/13/24 15:51	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/20/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409123

Job Number: 230003-0002

Received: 9/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/23/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/23/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409123
Date Received: 9/17/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/17/2024 5:00:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	230003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/23/24 11:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS16 - 2.5'	E409123-01A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS17 - 2.5'	E409123-02A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS18 - 2.5'	E409123-03A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS19 - 2'	E409123-04A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS20 - 2'	E409123-05A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS21 - 2'	E409123-06A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS22 - 2'	E409123-07A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS23 - 2'	E409123-08A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
FS24 - 1'	E409123-09A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
SW10 - 0-2.5'	E409123-10A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.
SW11 - 0-2'	E409123-11A	Soil	09/13/24	09/17/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS16 - 2.5'
E409123-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	90.2 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	58.9	20.0	1	09/17/24	09/17/24	

Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 230003-0002
Project Manager: Ashley Giovengo

Reported:
9/23/2024 11:55:51AM

FS17 - 2.5'

E409123-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438025
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438025
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438040
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	92.7 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438027
Chloride	77.7	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS18 - 2.5'
E409123-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	92.4 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	49.6	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS19 - 2'

E409123-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	99.1 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	89.6 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	74.8	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS20 - 2'

E409123-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	93.1 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	ND	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS21 - 2'

E409123-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	29.4	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS22 - 2'

E409123-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	101 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	34.8	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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FS23 - 2'

E409123-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	96.1 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	73.1	20.0	1	09/17/24	09/17/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 230003-0002
Project Manager: Ashley Giovengo

Reported:
9/23/2024 11:55:51AM

FS24 - 1'

E409123-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	23.0	20.0	1	09/17/24	09/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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SW10 - 0-2.5'
E409123-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	340	20.0	1	09/17/24	09/17/24	

Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 230003-0002
Project Manager: Ashley Giovengo

Reported:
9/23/2024 11:55:51AM

SW11 - 0-2'

E409123-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Benzene	ND	0.0250	1	09/17/24	09/18/24	
Ethylbenzene	ND	0.0250	1	09/17/24	09/18/24	
Toluene	ND	0.0250	1	09/17/24	09/18/24	
o-Xylene	ND	0.0250	1	09/17/24	09/18/24	
p,m-Xylene	ND	0.0500	1	09/17/24	09/18/24	
Total Xylenes	ND	0.0250	1	09/17/24	09/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/17/24	09/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		09/17/24	09/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438040	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	86.0 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438027	
Chloride	56.3	20.0	1	09/17/24	09/17/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	230003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/23/2024 11:55:51AM

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 (2438025-BLK1)Prepared: 09/17/24 Analyzed: 09/17/24

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	7.59		8.00		94.9	70-130			

LCS (2438025-BS1)Prepared: 09/17/24 Analyzed: 09/17/24

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

Matrix Spike (2438025-MS1)Source: E409122-02Prepared: 09/17/24 Analyzed: 09/17/24

Benzene	5.59	0.0250	5.00	ND	112	54-133			
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133			
Toluene	5.50	0.0250	5.00	ND	110	61-130			
o-Xylene	5.36	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike Dup (2438025-MSD1)Source: E409122-02Prepared: 09/17/24 Analyzed: 09/17/24

Benzene	5.29	0.0250	5.00	ND	106	54-133	5.58	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	5.60	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	5.47	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	5.45	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.53	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	230003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/23/2024 11:55:51AM

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 (2438025-BLK1) Prepared: 09/17/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

LCS (2438025-BS2) Prepared: 09/17/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.4	70-130			

Matrix Spike (2438025-MS2) Source: E409122-02 Prepared: 09/17/24 Analyzed: 09/18/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.6	70-130			

Matrix Spike Dup (2438025-MSD2) Source: E409122-02 Prepared: 09/17/24 Analyzed: 09/18/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.3	70-130	10.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	230003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/23/2024 11:55:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438040-BLK1) Prepared: 09/17/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.5	50-200			

LCS (2438040-BS1) Prepared: 09/17/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	196	25.0	250		78.3	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

LCS Dup (2438040-BSD1) Prepared: 09/17/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	202	25.0	250		80.7	38-132	3.03	20	
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 230003-0002 Project Manager: Ashley Giovengo	Reported: 9/23/2024 11:55:51AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438027-BLK1)					Prepared: 09/17/24 Analyzed: 09/17/24				
Chloride	ND	20.0							
LCS (2438027-BS1)					Prepared: 09/17/24 Analyzed: 09/17/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438027-MS1)					Source: E409122-03		Prepared: 09/17/24 Analyzed: 09/17/24		
Chloride	361	20.0	250	102	103	80-120			
Matrix Spike Dup (2438027-MSD1)					Source: E409122-03		Prepared: 09/17/24 Analyzed: 09/17/24		
Chloride	360	20.0	250	102	103	80-120	0.116	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	230003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/23/24 11:55

- 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# E409123		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: 12" 4-way Riser ROW				Address: 3122 National Parks Hwy													
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agioveno@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
9:28	9/13/24	Soil	1	FS16 - 2.5'		1						X					
9:31				FS17 - 2.5'		2						X					
9:32				FS18 - 2.5'		3						X					
9:35				FS19 - 2'		4						X					
9:36				FS20 - 2'		5						X					
9:38				FS21 - 2'		6						X					
9:40				FS22 - 2'		7						X					
11:26				FS23 - 2'		8						X					
11:38				FS24 - 1'		9						X					
9:53				SW10 - 0-2.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@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="radio"/> Y / <input type="radio"/> 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.																	



Page 2 of 2

Additional Instructions: Please CC: cburton@ensulum.com, agiovengo@ensulum.com, iestrella@ensulum.com, bdeal@ensulum.com, chamilton@ensulum.com, bsimmons@ensulum.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) <i>[Signature]</i>	Date 9/16/24	Time 10:15	Received by: (Signature) <i>[Signature]</i>	Date 9-16-24	Time 1115	<p>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</p> <p>Lab Use Only</p> <p>Received on ice: <input checked="" type="radio"/> Y / N</p> <p>T1 _____ T2 _____ T3 _____</p> <p>AVG Temp °C <u>4</u></p>
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-16-24	Time 1530	Received by: (Signature) <i>[Signature]</i>	Date 9.16.24	Time 1730	
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-16-24	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 9-17-24	Time 0500	
Relinquished by: (Signature) <i>[Signature]</i>	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: 9/17/2024 8:51:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/17/24 05:00	Work Order ID:	E409123
Phone:	(972) 371-5200	Date Logged In:	09/16/24 14:23	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/23/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409130

Job Number: 23003-0002

Received: 9/18/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/24/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409130
Date Received: 9/18/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 5:00:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

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

Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.

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Sample Summary

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/24/24 12:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS26 - 1'	E409130-01A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS27 - 1'	E409130-02A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS28 - 1'	E409130-03A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS29 - 1'	E409130-04A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS30 - 1.5'	E409130-05A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS31 - 1.5'	E409130-06A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS32 - 1'	E409130-07A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS33 - 1.5'	E409130-08A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS34 - 1'	E409130-09A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS35 - 1'	E409130-10A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS36 - 1'	E409130-11A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS43 - 1'	E409130-12A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
FS44 - 1'	E409130-13A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.
SW12 - 0-1.5'	E409130-14A	Soil	09/16/24	09/18/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/24/2024 12:27:29PM

FS26 - 1'

E409130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	87.2 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	99.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	87.2 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	99.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	94.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438053
Chloride	46.8	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS27 - 1'

E409130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	88.4 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.3 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	88.4 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.3 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	94.3 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	21.9	20.0	1	09/18/24	09/18/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/24/2024 12:27:29PM

FS28 - 1'

E409130-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.7 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.7 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	91.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438053
Chloride	80.8	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS29 - 1'

E409130-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.3 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	96.9 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.3 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	96.9 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	90.9 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	119	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS30 - 1.5'
E409130-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.2 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.2 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	95.1 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	152	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS31 - 1.5'
E409130-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.6 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.6 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	91.2 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	103	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS32 - 1'

E409130-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		107 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		107 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane		96.4 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438053
Chloride	149	20.0	1	09/18/24	09/18/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/24/2024 12:27:29PM

FS33 - 1.5'

E409130-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	86.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	90.0 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438053
Chloride	168	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS34 - 1'

E409130-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	88.6 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	88.6 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	82.2 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	108	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS35 - 1'

E409130-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	99.0 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	85.1 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	99.0 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	93.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	82.9	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS36 - 1'

E409130-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	84.7 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: Bromofluorobenzene	84.7 %	70-130		09/18/24	09/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/18/24	09/19/24	
Surrogate: Toluene-d8	98.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	130 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2438053
Chloride	32.5	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS43 - 1'

E409130-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		105 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		105 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane		126 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	317	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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FS44 - 1'

E409130-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		108 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		108 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane		100 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	113	20.0	1	09/18/24	09/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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SW12 - 0-1.5'
E409130-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		105 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/18/24	09/21/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/18/24	09/21/24	
Surrogate: Toluene-d8		105 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane		91.6 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2438053	
Chloride	32.2	20.0	1	09/18/24	09/18/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2024 12:27:29PM

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 (2438055-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

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	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS (2438055-BS1) Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	2.37	0.0250	2.50		94.8	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.5	70-130			
Toluene	2.42	0.0250	2.50		96.8	70-130			
o-Xylene	2.40	0.0250	2.50		96.1	70-130			
p,m-Xylene	4.78	0.0500	5.00		95.5	70-130			
Total Xylenes	7.18	0.0250	7.50		95.7	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike (2438055-MS1) Source: E409130-07 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	2.32	0.0250	2.50	ND	92.9	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.5	45-135			
Toluene	2.40	0.0250	2.50	ND	96.0	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	4.93	0.0500	5.00	ND	98.6	43-135			
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2438055-MSD1) Source: E409130-07 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	2.27	0.0250	2.50	ND	90.6	48-131	2.46	23	
Ethylbenzene	2.40	0.0250	2.50	ND	95.8	45-135	0.687	27	
Toluene	2.39	0.0250	2.50	ND	95.4	48-130	0.648	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	0.241	27	
p,m-Xylene	4.96	0.0500	5.00	ND	99.1	43-135	0.567	27	
Total Xylenes	7.45	0.0250	7.50	ND	99.3	43-135	0.458	27	
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2024 12:27:29PM

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 (2438055-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS (2438055-BS2) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike (2438055-MS2) Source: E409130-07 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2438055-MSD2) Source: E409130-07 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	4.08	20	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2024 12:27:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438049-BLK1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			

LCS (2438049-BS1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	184	25.0	250		73.5	38-132			
Surrogate: n-Nonane	49.6		50.0		99.1	50-200			

LCS Dup (2438049-BSD1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	187	25.0	250		74.8	38-132	1.71	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2024 12:27:29PM
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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 (2438053-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438053-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2438053-MS1)					Source: E409130-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	339	20.0	250	80.8	103	80-120			
Matrix Spike Dup (2438053-MSD1)					Source: E409130-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	343	20.0	250	80.8	105	80-120	1.27	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/24/24 12:27

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

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

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

Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX						
Project: 12" 4-way Riser Row				Address: 3122 National Parks Hwy		E 409130		23003.0002				X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
9:28	9/16/24	S	1	FS26 - 1'		1						X						
9:31				FS27 - 1'		2												
9:51				FS28 - 1'		3												
9:54				FS29 - 1'		4												
11:11				FS30 - 1.5'		5												
11:13				FS31 - 1.5'		6												
9:59				FS32 - 1'		7												
11:20				FS33 - 1.5'		8												
10:04				FS34 - 1'		9												
10:06				FS35 - 1'		10												
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.										
[Signature]		9/17/24	07:30	Michelle Gonzales		9-17-24	0730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Michelle Gonzales		9-17-24	1645	[Signature]		9-17-24	1700	Received on ice: Y / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
[Signature]		9-17-24	2345	[Signature]		9-18-24	0500											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
								4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Page 2 of 2Page 26 of 27

Envirotech Analytical Laboratory

Printed: 9/18/2024 12:50:21PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/18/24 05:00	Work Order ID:	E409130
Phone:	(972) 371-5200	Date Logged In:	09/17/24 12:26	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/24/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409166

Job Number: 23003-0002

Received: 9/19/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/27/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409166
Date Received: 9/19/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2024 8:00:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
09/27/24 15:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS 39 - 4'	E409166-01A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 40 - 4'	E409166-02A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 41 - 4'	E409166-03A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 42 - 4'	E409166-04A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 47 - 1'	E409166-05A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 48 - 1'	E409166-06A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 37 - 3'	E409166-07A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 49 - 1.5'	E409166-08A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 50 - 1.5'	E409166-09A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 51 - 2'	E409166-10A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 52 - 2'	E409166-11A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 45 - 2'	E409166-12A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 46 - 2'	E409166-13A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 38 - 4'	E409166-14A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
FS 53 - 4'	E409166-15A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
---	---	----------------------------------

FS 39 - 4'

E409166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		105 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	3760	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 40 - 4'

E409166-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		103 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		103 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		91.0 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	4290	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 41 - 4'

E409166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		109 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	3430	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 42 - 4'

E409166-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		115 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	1270	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 47 - 1'

E409166-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438128
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		109 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438136
Chloride	170	20.0	1	09/20/24	09/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 48 - 1'

E409166-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		106 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	96.9	20.0	1	09/20/24	09/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 37 - 3'

E409166-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		112 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	32.1	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 49 - 1.5'

E409166-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		105 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438128
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		108 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438136
Chloride	62.2	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 50 - 1.5'

E409166-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/25/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/19/24	09/25/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		113 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	67.4	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 51 - 2'

E409166-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		113 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	99.0	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 3:25:14PM

FS 52 - 2'

E409166-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438117
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		106 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438128
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		110 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438136
Chloride	76.4	20.0	1	09/20/24	09/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 45 - 2'

E409166-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/19/24	09/26/24	
Surrogate: Toluene-d8	105 %	70-130		09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/19/24	09/26/24	
Surrogate: Toluene-d8	105 %	70-130		09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane	104 %	50-200		09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	388	20.0	1	09/20/24	09/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 46 - 2'

E409166-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		104 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		104 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		103 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	251	20.0	1	09/20/24	09/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 38 - 4'

E409166-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		104 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	09/19/24	09/26/24	
Surrogate: Toluene-d8		104 %	70-130	09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane		86.9 %	50-200	09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	1940	20.0	1	09/20/24	09/21/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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FS 53 - 4'

E409166-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		09/19/24	09/26/24	
Surrogate: Toluene-d8	105 %	70-130		09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
Surrogate: Bromofluorobenzene	102 %	70-130		09/19/24	09/26/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		09/19/24	09/26/24	
Surrogate: Toluene-d8	105 %	70-130		09/19/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438128	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
Surrogate: n-Nonane	99.5 %	50-200		09/19/24	09/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438136	
Chloride	2680	40.0	2	09/20/24	09/21/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/27/2024 3:25:14PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438117-BLK1) Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2438117-BS1) Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	2.33	0.0250	2.50		93.1	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.9	70-130			
Toluene	2.32	0.0250	2.50		92.7	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS Dup (2438117-BSD1) Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	2.35	0.0250	2.50		94.0	70-130	0.919	23	
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130	0.579	27	
Toluene	2.33	0.0250	2.50		93.0	70-130	0.323	24	
o-Xylene	2.37	0.0250	2.50		95.0	70-130	3.49	27	
p,m-Xylene	4.71	0.0500	5.00		94.2	70-130	2.99	27	
Total Xylenes	7.08	0.0250	7.50		94.4	70-130	3.16	27	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/27/2024 3:25:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438117-BLK1) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2438117-BS2) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.3	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS Dup (2438117-BSD2) Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130	0.475	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/27/2024 3:25:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438128-BLK1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2438128-BS1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	218	25.0	250		87.2	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS Dup (2438128-BSD1) Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132	0.528	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/27/2024 3:25:14PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438136-BLK1)					Prepared: 09/20/24 Analyzed: 09/20/24				
Chloride	ND	20.0							
LCS (2438136-BS1)					Prepared: 09/20/24 Analyzed: 09/20/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438136-MS1)					Source: E409166-06		Prepared: 09/20/24 Analyzed: 09/20/24		
Chloride	352	20.0	250	96.9	102	80-120			
Matrix Spike Dup (2438136-MSD1)					Source: E409166-06		Prepared: 09/20/24 Analyzed: 09/20/24		
Chloride	359	20.0	250	96.9	105	80-120	1.94	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/27/24 15:25

- 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.



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: 12" 4-way River Row				Address: 3122 National Parks Hwy		Job Number											
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220		E 409166 23003.0002											
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
940	9/17/24	S	1	FS 39-4'		1						X					
942				FS 40-4'		2											
944				FS 41-4'		3											
1330				FS 42-1'		4											
1003				FS 47-1'		5											
1002				FS 48-1'		6											
1131				FS 37-1'		7											
1235				FS 49-1.5'		8											
1237				FS 50-1.5'		9											
1344				FS 51-2'		10											
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: (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.																	



[illegible]

Envirotech Analytical Laboratory

Printed: 9/19/2024 9:06:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/19/24 08:00	Work Order ID:	E409166
Phone:	(972) 371-5200	Date Logged In:	09/18/24 15:03	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/25/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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#		1D 2D 3D Std		NM CO UT TX							
Project: 12" 4-way River Row				Address: 3122 National Parks Hwy		Job Number											
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220		E409116423003.0002											
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
940	9/17/24	S	1	FS 39-4'		1											
942				FS 40-4'		2											
944				FS 41-4'		3											
1330				FS 42-X' 4'		4											
1003				FS 47-1'		5											
1002				FS 48-1'		6											
11:37				FS 37-+ 3'		7											
1235				FS 49-1.5'		8											
1237				FS 50-1.5'		9											
1344				FS 51-2'		10											
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 the day of receipt. 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.																	

Corrected Sample # 4 name.
Per Cole. 9/27/24 cm



envirotech

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409191

Job Number: 23003-0002

Received: 9/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/1/24

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: 10/1/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409191
Date Received: 9/23/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2024 8:00:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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,

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Sample Summary

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/01/24 14:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS61 - 4'	E409191-01A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS65 - 1'	E409191-02A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS66 - 1'	E409191-03A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS67 - 1'	E409191-04A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS72 - 4'	E409191-05A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS75 - 4'	E409191-06A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS76 - 4'	E409191-07A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS78 - 1'	E409191-08A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS88 - 4'	E409191-09A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS89 - 4'	E409191-10A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW13 - 0 - 4'	E409191-11A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW14 - 0 - 4'	E409191-12A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW16 - 0 - 4'	E409191-13A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS90 - 1'	E409191-14A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS92 - 1.5'	E409191-15A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS96 - 1.5	E409191-16A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS64 - 1	E409191-17A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS69 - 2.5'	E409191-18A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS70 - 2.5'	E409191-19A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW15 - 0 - 4	E409191-20A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS25 - 4'	E409191-21A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS56 - 4'	E409191-22A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
FS57 - 4'	E409191-23A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS61 - 4'

E409191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	65.7	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	55.0	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	113 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	518	20.0	1	09/23/24	09/24/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS65 - 1'

E409191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	53.4	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	109 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	69.2	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS66 - 1'

E409191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	111 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	96.1	20.0	1	09/23/24	09/24/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:04:42PM

FS67 - 1'

E409191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	118 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	109	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS72 - 4'

E409191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	358	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	195	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	112 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	892	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS75 - 4'

E409191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	70.4	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	111 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	535	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS76 - 4'

E409191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	259	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	139	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	110 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	1490	20.0	1	09/23/24	09/24/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:04:42PM

FS78 - 1'

E409191-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/30/24	
Surrogate: n-Nonane	106 %	50-200		09/21/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	60.8	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS88 - 4'

E409191-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	124 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	ND	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS89 - 4'

E409191-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	37.6	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	123 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	419	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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SW13 - 0 - 4'
E409191-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	93.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	93.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	114 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	110	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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SW14 - 0 - 4'
E409191-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	100 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	100 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	125 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	50.5	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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SW16 - 0 - 4'
E409191-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	117 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	32.3	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS90 - 1'

E409191-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	121 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	ND	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS92 - 1.5'
E409191-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	118 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	ND	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS96 - 1.5

E409191-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	121 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	40.3	20.0	1	09/23/24	09/24/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:04:42PM

FS64 - 1

E409191-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	119 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	ND	20.0	1	09/23/24	09/24/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:04:42PM

FS69 - 2.5'

E409191-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	117 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	ND	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS70 - 2.5'
E409191-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	92.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439007
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	92.4 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438165
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	109 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439021
Chloride	25.4	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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SW15 - 0 - 4
E409191-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438165	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	10/01/24	
Surrogate: n-Nonane	115 %	50-200		09/21/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439021	
Chloride	40.7	20.0	1	09/23/24	09/24/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:04:42PM

FS25 - 4'

E409191-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2439005
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2439005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438170
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/27/24	
Surrogate: n-Nonane	92.9 %	50-200		09/21/24	09/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2439020
Chloride	329	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS56 - 4'

E409191-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439005	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438170	
Diesel Range Organics (C10-C28)	56.9	25.0	1	09/21/24	09/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/27/24	
Surrogate: n-Nonane	95.7 %	50-200		09/21/24	09/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2439020	
Chloride	334	20.0	1	09/23/24	09/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:04:42PM
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FS57 - 4'

E409191-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439005	
Benzene	ND	0.0250	1	09/23/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/28/24	
Toluene	ND	0.0250	1	09/23/24	09/28/24	
o-Xylene	ND	0.0250	1	09/23/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/28/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/23/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/23/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438170	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/27/24	
Surrogate: n-Nonane	95.0 %	50-200		09/21/24	09/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2439020	
Chloride	700	20.0	1	09/23/24	09/24/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

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 (2439005-BLK1) Prepared: 09/23/24 Analyzed: 09/28/24

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	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.526		0.500		105	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2439005-BS1) Prepared: 09/23/24 Analyzed: 09/28/24

Benzene	2.29	0.0250	2.50		91.8	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.5	70-130			
Toluene	2.27	0.0250	2.50		90.9	70-130			
o-Xylene	2.31	0.0250	2.50		92.3	70-130			
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130			
Total Xylenes	6.91	0.0250	7.50		92.1	70-130			
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

LCS Dup (2439005-BSD1) Prepared: 09/23/24 Analyzed: 09/28/24

Benzene	2.34	0.0250	2.50		93.4	70-130	1.75	23	
Ethylbenzene	2.40	0.0250	2.50		95.8	70-130	3.53	27	
Toluene	2.37	0.0250	2.50		94.8	70-130	4.20	24	
o-Xylene	2.39	0.0250	2.50		95.7	70-130	3.60	27	
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130	3.50	27	
Total Xylenes	7.16	0.0250	7.50		95.4	70-130	3.53	27	
Surrogate: Bromofluorobenzene	0.471		0.500		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

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 (2439007-BLK1) Prepared: 09/23/24 Analyzed: 09/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2439007-BS1) Prepared: 09/23/24 Analyzed: 09/28/24

Benzene	2.27	0.0250	2.50		90.9	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.2	70-130			
Toluene	2.28	0.0250	2.50		91.3	70-130			
o-Xylene	2.16	0.0250	2.50		86.5	70-130			
p,m-Xylene	4.30	0.0500	5.00		85.9	70-130			
Total Xylenes	6.46	0.0250	7.50		86.1	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS Dup (2439007-BSD1) Prepared: 09/23/24 Analyzed: 09/28/24

Benzene	2.13	0.0250	2.50		85.0	70-130	6.64	23	
Ethylbenzene	2.20	0.0250	2.50		87.8	70-130	3.80	27	
Toluene	2.19	0.0250	2.50		87.8	70-130	3.95	24	
o-Xylene	2.14	0.0250	2.50		85.5	70-130	1.16	27	
p,m-Xylene	4.26	0.0500	5.00		85.2	70-130	0.841	27	
Total Xylenes	6.40	0.0250	7.50		85.3	70-130	0.949	27	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2439005-BLK1)

Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.526		0.500		105	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2439005-BS2)

Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.5	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS Dup (2439005-BSD2)

Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.7	70-130	6.92	20	
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

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 (2439007-BLK1) Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS (2439007-BS2) Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130			
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS Dup (2439007-BSD2) Prepared: 09/23/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130	0.0549	20	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

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 (2438165-BLK1)					Prepared: 09/21/24 Analyzed: 09/30/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.3		50.0		113	50-200			

LCS (2438165-BS1)					Prepared: 09/21/24 Analyzed: 09/30/24				
Diesel Range Organics (C10-C28)	281	25.0	250		113	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

LCS Dup (2438165-BSD1)					Prepared: 09/21/24 Analyzed: 09/30/24				
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	2.63	20	
Surrogate: n-Nonane	56.5		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2438170-BLK1)					Prepared: 09/21/24 Analyzed: 09/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			

LCS (2438170-BS1)					Prepared: 09/21/24 Analyzed: 09/26/24				
Diesel Range Organics (C10-C28)	229	25.0	250		91.5	38-132			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

LCS Dup (2438170-BSD1)					Prepared: 09/21/24 Analyzed: 09/26/24				
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132	5.08	20	
Surrogate: n-Nonane	46.6		50.0		93.1	50-200			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

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 (2439020-BLK1)				Prepared: 09/23/24 Analyzed: 09/24/24					
Chloride	ND	20.0							
LCS (2439020-BS1)				Prepared: 09/23/24 Analyzed: 09/25/24					
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2439020-MS1)				Source: E409190-30		Prepared: 09/23/24 Analyzed: 09/24/24			
Chloride	1770	20.0	250	1510	105	80-120			
Matrix Spike Dup (2439020-MSD1)				Source: E409190-30		Prepared: 09/23/24 Analyzed: 09/24/24			
Chloride	1710	20.0	250	1510	81.3	80-120	3.34	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:04:42PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439021-BLK1)					Prepared: 09/23/24 Analyzed: 09/24/24				
Chloride	ND	20.0							
LCS (2439021-BS1)					Prepared: 09/23/24 Analyzed: 09/24/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2439021-MS1)					Source: E409191-08		Prepared: 09/23/24 Analyzed: 09/24/24		
Chloride	319	20.0	250	60.8	103	80-120			
Matrix Spike Dup (2439021-MSD1)					Source: E409191-08		Prepared: 09/23/24 Analyzed: 09/24/24		
Chloride	313	20.0	250	60.8	101	80-120	1.88	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/01/24 14:04

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

Chain of Custody

Page 1 of 3

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: 12" 4-Way Riser Row				Address: 3122 National Parks Hwy		E409191		23003-0002				<input checked="" type="checkbox"/>			
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			Remarks
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				
1120	9/19/24	SO	1	FS61-4'		1						X									
1101				FS65-1'		2															
1055				FS66-1'		3															
1046				FS67-1'		4															
1118				FS72-4'		5															
1118				FS75-4'		6															
1120				FS76-4'		7															
1051				FS78-1'		8															
1039				FS88-4'		9															
1040	✓	✓	✓	FS89-4'		10						✓									

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.	
<i>Cole Burton</i>	9/20/24	7:36	<i>Michelle Gonzales</i>	9-20-24	0730		Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
<i>Michelle Gonzales</i>	9-20-24	1830	<i>L.H.</i>	9-20-24	1830		
<i>L.H.</i>	9-20-24	2400	<i>Cathy Man</i>	9-23-24	8:00		
<i>L.H.</i>	9-20-24	2400					

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

Chain of Custody

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: 12" 4-Way (Riser Row)				Address: 3122 National Parks Hwy				EJ09191				2308-002				X			
Project Manager: Ashley Giovenego				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovenego@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovenego@ensolum.com																			
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	Analysis and Method								Remarks			
1159	9/19/24	S	1	SW13-0-4'			11	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED 1005 - TX	RCRA 8 Metals				
1201				SW14-0-4'			12												
1203				SW16-0-4'			13												
1103				FS90-1'			14												
1349				FS92-1.5'			15												
1347				FS96-1.5'			16												
1412				FS64-1'			17												
1422				FS69-2.5'			18												
1424				FS70-2.5'			19												
1431				SW15-0-4'			20												
Additional Instructions: Please CC: cburton@ensolum.com, agiovenego@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.							
Michelle Gonzales		9/20/24		7:30		Michelle Gonzales		9-20-24		6730		Lab Use Only							
Michelle Gonzales		9-20-24		1830		C.A. H.		9-20-24		1830		Received on ice: N							
Michelle Gonzales		9-20-24		2400		Michelle Gonzales		9-20-24		8:00		T1 T2 T3							
Michelle Gonzales		9-20-24				Michelle Gonzales		9-20-24				AVG Temp °C 4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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Envirotech Analytical Laboratory

Printed: 9/23/2024 10:42:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/23/24 08:00	Work Order ID:	E409191
Phone:	(972) 371-5200	Date Logged In:	09/20/24 15:16	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/27/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409210

Job Number: 23003-0002

Received: 9/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/30/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409210
Date Received: 9/24/2024 8:10:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/24/2024 8:10:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/30/24 15:36
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS60 -2'	E409210-01A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS62 -2'	E409210-02A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS63 -1'	E409210-03A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS68 -1'	E409210-04A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS79 -1'	E409210-05A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS91 -1'	E409210-06A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS54 -4'	E409210-07A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS55 -4'	E409210-08A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS80 -1'	E409210-09A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS84 -1'	E409210-10A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS85 -1'	E409210-11A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS94 -1'	E409210-12A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS59 -1'	E409210-13A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
FS58 -1'	E409210-14A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS60 -2'
E409210-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/28/24	
Toluene	ND	0.0250	1	09/24/24	09/28/24	
o-Xylene	ND	0.0250	1	09/24/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/28/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130	09/24/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/24/24	09/28/24	
Surrogate: Toluene-d8		103 %	70-130	09/24/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/28/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130	09/24/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/24/24	09/28/24	
Surrogate: Toluene-d8		103 %	70-130	09/24/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane		91.8 %	50-200	09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	53.8	20.0	1	09/25/24	09/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS62 -2'

E409210-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	95.0 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	96.8 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	121	20.0	1	09/25/24	09/25/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS63 -1'

E409210-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.4 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.4 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	95.2 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	149	20.0	1	09/25/24	09/25/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS68 -1'

E409210-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	98.1 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	22.0	20.0	1	09/25/24	09/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS79 -1'

E409210-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	89.0 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	ND	20.0	1	09/25/24	09/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS91 -1'

E409210-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	92.1 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	92.1 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	90.3 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	33.5	20.0	1	09/25/24	09/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS54 -4'

E409210-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	94.6 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	3880	40.0	2	09/25/24	09/25/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS55 -4'
E409210-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	91.5 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	91.5 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	90.9 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	5310	100	5	09/25/24	09/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS80 -1'

E409210-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	94.7 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	87.2	20.0	1	09/25/24	09/26/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS84 -1'

E409210-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	95.5 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS85 -1'

E409210-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	83.8 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	283	20.0	1	09/25/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS94 -1'
E409210-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene		91.2 %	70-130	09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/24/24	09/29/24	
Surrogate: Toluene-d8		101 %	70-130	09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene		91.2 %	70-130	09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/24/24	09/29/24	
Surrogate: Toluene-d8		101 %	70-130	09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane		97.9 %	50-200	09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	284	20.0	1	09/25/24	09/26/24	

Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/30/2024 3:36:44PM

FS59 -1'

E409210-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439041
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439062
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	102 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2439066
Chloride	339	20.0	1	09/25/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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FS58 -1'

E409210-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Benzene	ND	0.0250	1	09/24/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/29/24	
Toluene	ND	0.0250	1	09/24/24	09/29/24	
o-Xylene	ND	0.0250	1	09/24/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/29/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/24/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		09/24/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/24/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439062	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/28/24	
Surrogate: n-Nonane	98.8 %	50-200		09/25/24	09/28/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2439066	
Chloride	104	20.0	1	09/25/24	09/26/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/30/2024 3:36:44PM

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 (2439041-BLK1)

Prepared: 09/24/24 Analyzed: 09/28/24

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	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2439041-BS1)

Prepared: 09/24/24 Analyzed: 09/28/24

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.53	0.0250	2.50		101	70-130			
o-Xylene	2.35	0.0250	2.50		94.1	70-130			
p,m-Xylene	4.76	0.0500	5.00		95.1	70-130			
Total Xylenes	7.11	0.0250	7.50		94.8	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS Dup (2439041-BSD1)

Prepared: 09/24/24 Analyzed: 09/28/24

Benzene	2.47	0.0250	2.50		99.0	70-130	0.444	23	
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130	0.00	27	
Toluene	2.45	0.0250	2.50		98.1	70-130	3.21	24	
o-Xylene	2.41	0.0250	2.50		96.3	70-130	2.37	27	
p,m-Xylene	4.82	0.0500	5.00		96.5	70-130	1.38	27	
Total Xylenes	7.23	0.0250	7.50		96.4	70-130	1.71	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/30/2024 3:36:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2439041-BLK1) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2439041-BS2) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS Dup (2439041-BSD2) Prepared: 09/24/24 Analyzed: 09/28/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		82.9	70-130	2.60	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/30/2024 3:36:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439062-BLK1) Prepared: 09/25/24 Analyzed: 09/28/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

LCS (2439062-BS1) Prepared: 09/25/24 Analyzed: 09/28/24

Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike (2439062-MS1) Source: E409210-05 Prepared: 09/25/24 Analyzed: 09/28/24

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike Dup (2439062-MSD1) Source: E409210-05 Prepared: 09/25/24 Analyzed: 09/28/24

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132	2.68	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/30/2024 3:36:44PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439066-BLK1)					Prepared: 09/25/24 Analyzed: 09/25/24				
Chloride	ND	20.0							
LCS (2439066-BS1)					Prepared: 09/25/24 Analyzed: 09/25/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2439066-MS1)					Source: E409210-02		Prepared: 09/25/24 Analyzed: 09/25/24		
Chloride	362	20.0	250	121	96.5	80-120			
Matrix Spike Dup (2439066-MSD1)					Source: E409210-02		Prepared: 09/25/24 Analyzed: 09/25/24		
Chloride	372	20.0	250	121	100	80-120	2.65	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/30/24 15:36

- 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: 12" 4-way Riser Row				Address: 3122 National Parks Hwy		E409210	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	TCEDQ 1005	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
1037	9/20/2024	Soil	1	FS60-2'		1						X						
1040	9/20/2024	Soil	1	FS62-2'		2						X						
1043	9/20/2024	Soil	1	FS63-1'		3						X						
1124	9/20/2024	Soil	1	FS66-1'		4						X						
1129	9/20/2024	Soil	1	FS79-1'		5						X						
1130	9/20/2024	Soil	1	FS91-1'		6						X						
1147	9/20/2024	Soil	1	FS54-4'		7						X						
1149	9/20/2024	Soil	1	FS55-4'		8						X						
1200	9/20/2024	Soil	1	FS80-1'		9						X						
1313	9/20/2024	Soil	1	FS84-1'		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: Brandon Deal 9/23/2024																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: Y N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech

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: 12" 4-way Riser Row				Address: 3122 National Parks Hwy				E4109210		230030002					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																													
																Analysis and Method				EPA Program									
																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	
																										Compliance	Y	or	N
																									PWSID #				
																										Remarks			
Sample Information																													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number																							
1315	9/20/2024	Soil	1	F585-1'		11									X														
1317	9/20/2024	Soil	1	F594-1'		12									X														
1408	9/20/2024	Soil	1	F559-4'		13									X														
1415	9/20/2024	Soil	1	F558-1'		14									X														
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																													
Sampled by: Brandon Deal																													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days 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.																													



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Envirotech Analytical Laboratory

Printed: 9/24/2024 12:36:40PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/24/24 08:10	Work Order ID:	E409210
Phone:	(972) 371-5200	Date Logged In:	09/23/24 14:59	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/30/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: 12 Inch 4-Way Riser Row

Work Order: E409226

Job Number: 23003-0002

Received: 9/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/1/24

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: 10/1/24

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



Project Name: 12 Inch 4-Way Riser Row
Workorder: E409226
Date Received: 9/25/2024 8:10:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/25/2024 8:10:00AM, under the Project Name: 12 Inch 4-Way Riser Row.

The analytical test results summarized in this report with the Project Name: 12 Inch 4-Way Riser 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

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

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

12 Inch 4-Way Riser Row

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/01/24 14:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS77 -0.5'	E409226-01A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS82 -1'	E409226-02A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS86 -1'	E409226-03A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS87 -1'	E409226-04A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS103 -2'	E409226-05A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS73 -4'	E409226-06A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS95 -1'	E409226-07A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS105 -2'	E409226-08A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS104 -2'	E409226-09A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS97 1'	E409226-10A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS100 -1'	E409226-11A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS101 -1'	E409226-12A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS102 -1'	E409226-13A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS71 -1'	E409226-14A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS81 -0.5'	E409226-15A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW19 - 0-1'	E409226-16A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW20 - 0-1'	E409226-17A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW21 - 0-2'	E409226-18A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW22 - 0-2'	E409226-19A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW23 - 0-4'	E409226-20A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW24 - 0-4'	E409226-21A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW17 - 0-4'	E409226-22A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW18 0-4'	E409226-23A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS83 -1.5'	E409226-24A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS74 -4'	E409226-25A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS93 -1'	E409226-26A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS98 -2'	E409226-27A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
FS99 -2'	E409226-28A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS77 -0.5'

E409226-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	105 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	273	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS82 -1'

E409226-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA			Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA			Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV			Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	104 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT			Batch: 2439088
Chloride	55.4	20.0	1	09/26/24	09/26/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:59:28PM

FS86 -1'

E409226-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	93.8 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	186	20.0	1	09/26/24	09/27/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:59:28PM

FS87 -1'

E409226-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	104 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	104 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	105 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	70.9	20.0	1	09/26/24	09/26/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:59:28PM

FS103 -2'

E409226-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	107 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	121	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS73 -4'

E409226-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	91.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	104 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	91.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	104 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	728	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	376	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	111 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	2550	40.0	2	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS95 -1'

E409226-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	108 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	39.1	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS105 -2'

E409226-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	95.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	106 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	ND	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS104 -2'

E409226-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	109 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	22.4	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS97 1'
E409226-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	92.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	92.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	103 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	46.6	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	100 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	236	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS100 -1'

E409226-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.8 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.8 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	108 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	ND	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS101 -1'

E409226-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	90.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	108 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	55.1	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS102 -1'

E409226-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	106 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	42.3	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS71 -1'

E409226-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	98.0 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	137	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS81 -0.5'
E409226-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.0 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	93.0 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	102 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	97.6 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	44.8	20.0	1	09/26/24	09/27/24	



Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:59:28PM

SW19 - 0-1'

E409226-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Benzene	ND	0.0250	1	09/25/24	09/30/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/30/24	
Toluene	ND	0.0250	1	09/25/24	09/30/24	
o-Xylene	ND	0.0250	1	09/25/24	09/30/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/30/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	91.0 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439064
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	91.0 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	100 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	108 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439088
Chloride	153	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW20 - 0-1'
E409226-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/30/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/30/24	
Toluene	ND	0.0250	1	09/25/24	09/30/24	
o-Xylene	ND	0.0250	1	09/25/24	09/30/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/30/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene		94.6 %	70-130	09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	09/25/24	09/30/24	
Surrogate: Toluene-d8		101 %	70-130	09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene		94.6 %	70-130	09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	09/25/24	09/30/24	
Surrogate: Toluene-d8		101 %	70-130	09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane		106 %	50-200	09/25/24	10/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	34.4	20.0	1	09/26/24	09/27/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW21 - 0-2'
E409226-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/30/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/30/24	
Toluene	ND	0.0250	1	09/25/24	09/30/24	
o-Xylene	ND	0.0250	1	09/25/24	09/30/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/30/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	103 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	103 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	110 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	77.1	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW22 - 0-2'
E409226-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/30/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/30/24	
Toluene	ND	0.0250	1	09/25/24	09/30/24	
o-Xylene	ND	0.0250	1	09/25/24	09/30/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/30/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	99.1 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	37.3	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW23 - 0-4'
E409226-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Benzene	ND	0.0250	1	09/25/24	09/30/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/30/24	
Toluene	ND	0.0250	1	09/25/24	09/30/24	
o-Xylene	ND	0.0250	1	09/25/24	09/30/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/30/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	90.0 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/30/24	
Surrogate: Bromofluorobenzene	90.0 %	70-130		09/25/24	09/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/25/24	09/30/24	
Surrogate: Toluene-d8	101 %	70-130		09/25/24	09/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	10/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	10/01/24	
Surrogate: n-Nonane	107 %	50-200		09/25/24	10/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439088	
Chloride	30.8	20.0	1	09/26/24	09/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW24 - 0-4'
E409226-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	95.8 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	95.8 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	128 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	69.4	20.0	1	09/26/24	09/26/24	

Sample Data

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

Project Name: 12 Inch 4-Way Riser Row
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2024 2:59:28PM

SW17 - 0-4'

E409226-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439068
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.2 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439068
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.2 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439075
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	120 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	84.7	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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SW18 0-4'
E409226-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.5 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.5 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	125 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	69.2	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS83 -1.5'

E409226-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439068
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.7 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439068
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.7 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439075
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	115 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	208	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS74 -4'

E409226-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	97.5 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	97.5 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	154 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	136	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS93 -1'
E409226-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.1 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.1 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	123 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	53.1	20.0	1	09/26/24	09/26/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS98 -2'

E409226-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	97.4 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	114 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	32.3	20.0	1	09/26/24	09/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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FS99 -2'
E409226-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Benzene	ND	0.0250	1	09/25/24	09/29/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/29/24	
Toluene	ND	0.0250	1	09/25/24	09/29/24	
o-Xylene	ND	0.0250	1	09/25/24	09/29/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/29/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.3 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2439068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/29/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/25/24	09/29/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/25/24	09/29/24	
Surrogate: Toluene-d8	96.3 %	70-130		09/25/24	09/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2439075	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/30/24	
Surrogate: n-Nonane	109 %	50-200		09/25/24	09/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439085	
Chloride	111	20.0	1	09/26/24	09/26/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439064-BLK1)

Prepared: 09/25/24 Analyzed: 09/29/24

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	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS (2439064-BS1)

Prepared: 09/25/24 Analyzed: 09/29/24

Benzene	2.23	0.0250	2.50		89.4	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.3	70-130			
Toluene	2.31	0.0250	2.50		92.4	70-130			
o-Xylene	2.21	0.0250	2.50		88.2	70-130			
p,m-Xylene	4.44	0.0500	5.00		88.7	70-130			
Total Xylenes	6.64	0.0250	7.50		88.5	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS Dup (2439064-BSD1)

Prepared: 09/25/24 Analyzed: 09/29/24

Benzene	2.26	0.0250	2.50		90.4	70-130	1.11	23	
Ethylbenzene	2.36	0.0250	2.50		94.3	70-130	2.08	27	
Toluene	2.35	0.0250	2.50		94.1	70-130	1.80	24	
o-Xylene	2.26	0.0250	2.50		90.3	70-130	2.37	27	
p,m-Xylene	4.51	0.0500	5.00		90.2	70-130	1.67	27	
Total Xylenes	6.77	0.0250	7.50		90.2	70-130	1.90	27	
Surrogate: Bromofluorobenzene	0.470		0.500		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439068-BLK1)

Prepared: 09/25/24 Analyzed: 09/29/24

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	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			

LCS (2439068-BS1)

Prepared: 09/25/24 Analyzed: 09/29/24

Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.5	70-130			
Toluene	2.41	0.0250	2.50		96.2	70-130			
o-Xylene	2.44	0.0250	2.50		97.7	70-130			
p,m-Xylene	4.84	0.0500	5.00		96.8	70-130			
Total Xylenes	7.28	0.0250	7.50		97.1	70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			

LCS Dup (2439068-BSD1)

Prepared: 09/25/24 Analyzed: 09/29/24

Benzene	2.42	0.0250	2.50		96.7	70-130	3.66	23	
Ethylbenzene	2.45	0.0250	2.50		97.8	70-130	2.40	27	
Toluene	2.44	0.0250	2.50		97.7	70-130	1.59	24	
o-Xylene	2.43	0.0250	2.50		97.1	70-130	0.575	27	
p,m-Xylene	4.82	0.0500	5.00		96.3	70-130	0.507	27	
Total Xylenes	7.24	0.0250	7.50		96.6	70-130	0.530	27	
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439064-BLK1) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS (2439064-BS2) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: Bromofluorobenzene	0.471		0.500		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS Dup (2439064-BSD2) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130	1.83	20	
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439068-BLK1) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			

LCS (2439068-BS2) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	40.6	20.0	50.0		81.2	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS Dup (2439068-BSD2) Prepared: 09/25/24 Analyzed: 09/29/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.6	70-130	1.99	20	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439074-BLK1) Prepared: 09/25/24 Analyzed: 09/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2439074-BS1) Prepared: 09/25/24 Analyzed: 09/30/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike (2439074-MS1) Source: E409226-02 Prepared: 09/25/24 Analyzed: 09/30/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2439074-MSD1) Source: E409226-02 Prepared: 09/25/24 Analyzed: 09/30/24

Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132	2.80	20	
Surrogate: n-Nonane	56.6		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	12 Inch 4-Way Riser Row	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2024 2:59:28PM

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 (2439075-BLK1) Prepared: 09/25/24 Analyzed: 09/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS (2439075-BS1) Prepared: 09/25/24 Analyzed: 09/29/24

Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike (2439075-MS1) Source: E409221-01 Prepared: 09/25/24 Analyzed: 09/29/24

Diesel Range Organics (C10-C28)	341	25.0	250	82.1	103	38-132			
Surrogate: n-Nonane	57.3		50.0		115	50-200			

Matrix Spike Dup (2439075-MSD1) Source: E409221-01 Prepared: 09/25/24 Analyzed: 09/29/24

Diesel Range Organics (C10-C28)	331	25.0	250	82.1	99.4	38-132	2.95	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439085-BLK1)					Prepared: 09/26/24 Analyzed: 09/26/24				
Chloride	ND	20.0							
LCS (2439085-BS1)					Prepared: 09/26/24 Analyzed: 09/26/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2439085-MS1)					Source: E409226-26		Prepared: 09/26/24 Analyzed: 09/26/24		
Chloride	313	20.0	250	53.1	104	80-120			
Matrix Spike Dup (2439085-MSD1)					Source: E409226-26		Prepared: 09/26/24 Analyzed: 09/26/24		
Chloride	312	20.0	250	53.1	104	80-120	0.221	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: 12 Inch 4-Way Riser Row Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/1/2024 2:59:28PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439088-BLK1)					Prepared: 09/26/24 Analyzed: 09/26/24				
Chloride	ND	20.0							
LCS (2439088-BS1)					Prepared: 09/26/24 Analyzed: 09/26/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2439088-MS1)					Source: E409226-04		Prepared: 09/26/24 Analyzed: 09/26/24		
Chloride	331	20.0	250	70.9	104	80-120			
Matrix Spike Dup (2439088-MSD1)					Source: E409226-04		Prepared: 09/26/24 Analyzed: 09/26/24		
Chloride	330	20.0	250	70.9	104	80-120	0.323	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:	12 Inch 4-Way Riser Row	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/01/24 14:59

- 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: 12" 4-Way Riser ROW				Address: 3122 National Parks Hwy		E409226	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
1013	9/23/2024	Soil	1	FS77-0.5'		1						X					
1020	9/23/2024	Soil	1	FS82-1'		2						X					
1022	9/23/24	Soil	1	FS86-1'		3						X					
1026	9/23/24	Soil	1	FS87-1'		4						X					
0955	9/23/24	Soil	1	FS103-2'		5						X					
1003	9/23/24	Soil	1	FS73-4'		6						X					
1006	9/23/24	Soil	1	FS95-1'		7						X					
0954	9/23/24	Soil	1	FS105-2'		8						X					
0957	9/23/24	Soil	1	FS104-2'		9						X					
1140	9/23/24	Soil	1	FS97-1'		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: 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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Michelle Gonzales		9-24-24	10:15	Michelle Gonzales		9-24-24	10:15										
Michelle Gonzales		9-24-24	16:02	Camden Briggs		9-24-24	17:30										
Camden Briggs		9-25-24	00:30	Curti-Mae		9-25-24	8:10										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: 12" 4-Way Riser ROW				Address: 3122 National Parks Hwy		E409226		23003-0002				X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1129	9/23/24	Soil	1	FS100-1'		11						X					
1131	9/23/24	Soil	1	FS100-1'		12						X					
1134	9/23/24	Soil	1	FS102-1'		13						X					
1127	9/23/24	Soil	1	FS71-1'		14						X					
1120	9/23/24	Soil	1	FS81-0.5		15						X					
1221	9/23/24	Soil	1	SW19-0-1'		16						X					
1224	9/23/24	Soil	1	SW20-0-1'		17						X					
1227	9/23/24	Soil	1	SW21-0-2'		18						X					
1229	9/23/24	Soil	1	SW22-0-2'		19						X					
1235	9/23/24	Soil	1	SW23-0-4'		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: 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. Lab Use Only Received on ice: <input checked="" type="radio"/> 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.																	



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: 12" 4-Way Riser ROW				Address: 3122 National Parks Hwy		E409224		23003.0002				x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1233	9/23/24	Soil	1	SW24-0-4'		21						X					
1217	9/23/24	Soil	1	SW17-0-4'		22						X					
1217	9/23/24	Soil	1	SW18-0-4'		23						X					
1238	9/23/24	Soil	1	FS83-1.5'		24						X					
1345	9/23/24	Soil	1	FS74-4'		25						X					
1341	9/23/24	Soil	1	FS93-1'		26						X					
1430	9/23/24	Soil	1	FS96-2'		27						X					
1431	9/23/24	Soil	1	FS99-2'		28						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Michelle Gonzales		9/24/24	10:15	Michelle Gonzales		9/24/24	10:15										
Michelle Gonzales		9/24/24	16:02	Camden Briggs		9/24/24	17:30										
Camden Briggs		9/25/24	00:30	Cathy Mon		9/25/24	8:10										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Cathy Mon																	
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: 9/25/2024 11:50:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/25/24 08:10	Work Order ID:	E409226
Phone:	(972) 371-5200	Date Logged In:	09/24/24 15:12	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/01/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMSLO Cultural Resources Cover Sheet



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

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

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

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

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

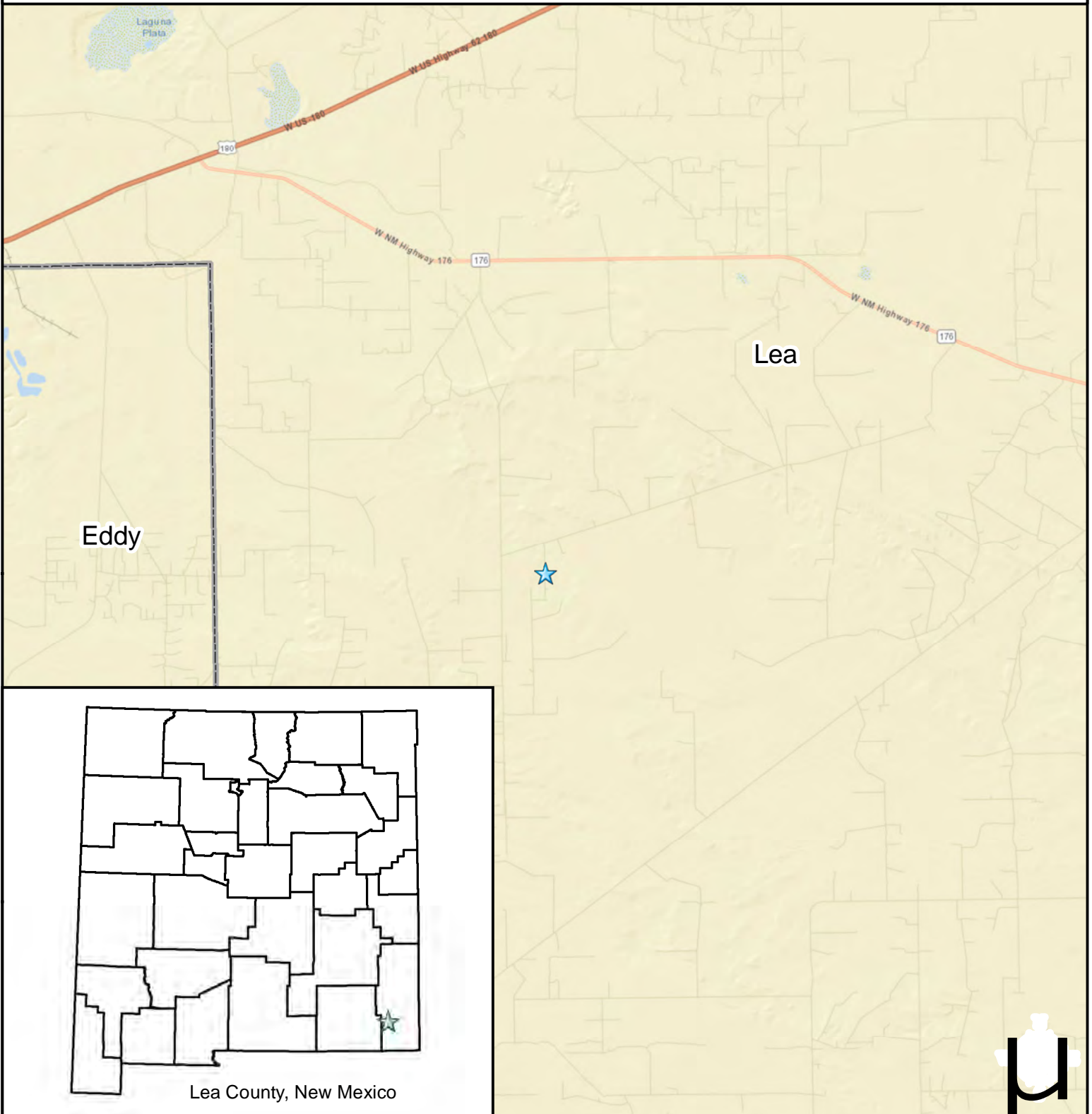
No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Beaver Creek ARCHAEOLOGY

Matador's 4-Way Riser ROW
Ensolum, LLC
T21S R33E Sec. 31 ; T22S R33E Sec. 6
Grama Ridge(1984) Quad. Map
Landreth-Monument Draws Drainage
Lea County, New Mexico



Legend

★ Project Location

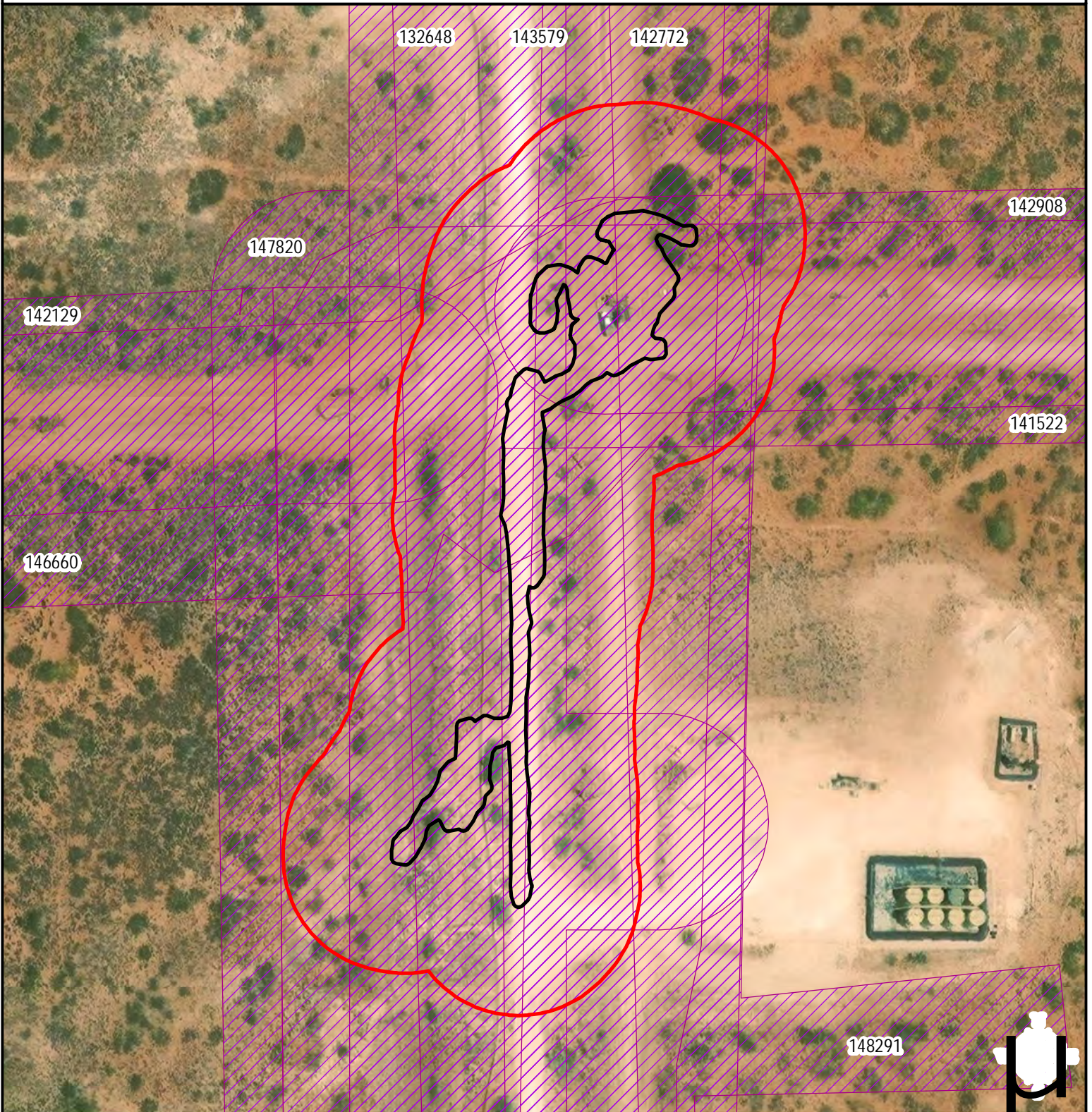


Base Map: USGS 7.5'
Scale: 1:180,000
UTM NAD83 Zone 13



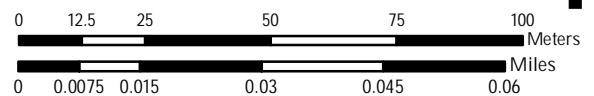
Beaver Creek ARCHAEOLOGY

Matador's 4-Way Riser ROW
Ensolum, LLC
T21S R33E Sec. 31 ; T22S R33E Sec. 6
Grama Ridge(1984) Quad. Map
Landreth-Monument Draws Drainage
Lea County, New Mexico



Legend

- Project Area (5 Acres)
- Workspace Limits (0.7 Acres)
- Previously Surveyed (0.7 Acres)



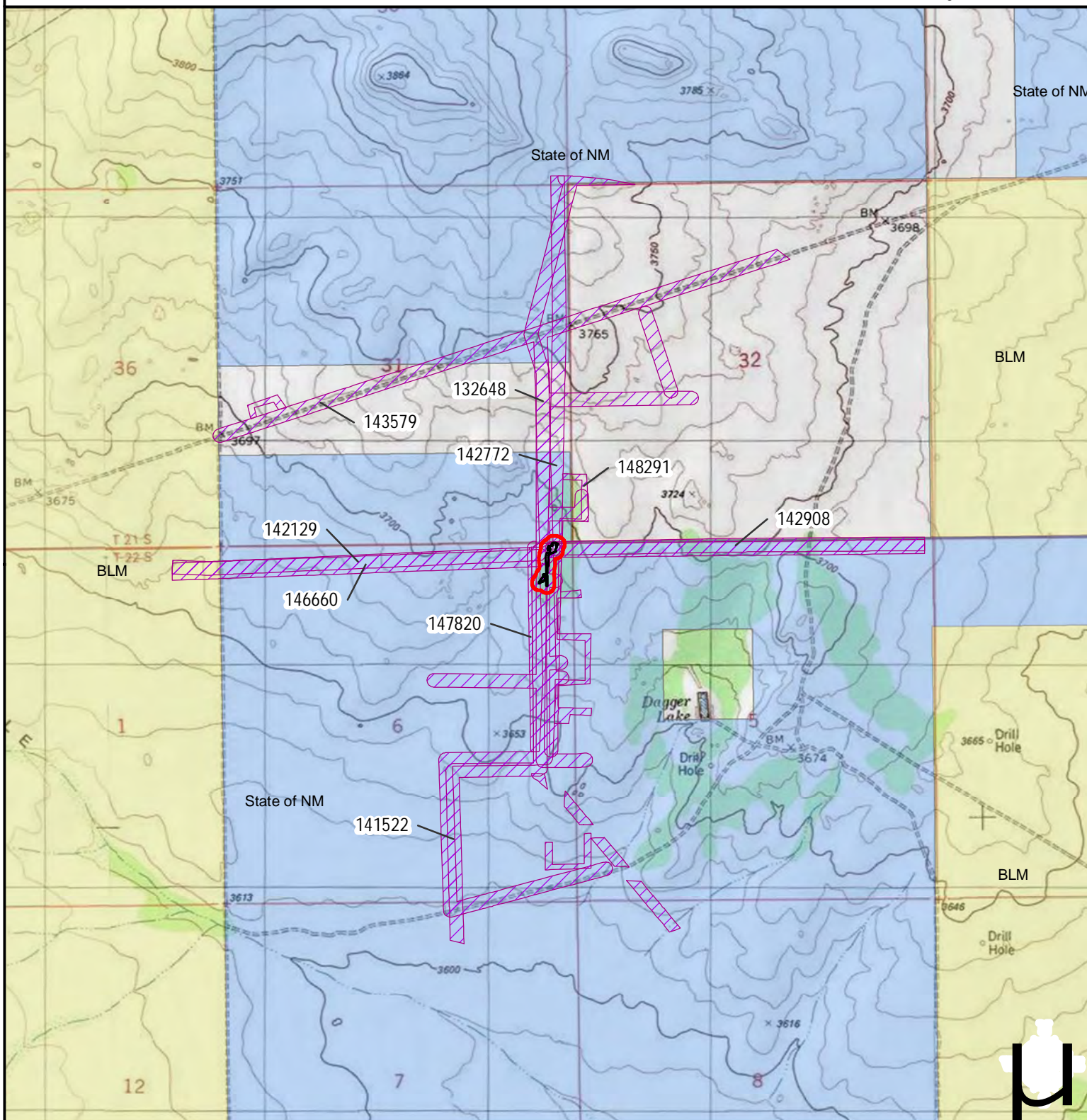
Base Map: USGS 7.5'
Scale: 1:1,500
UTM NAD83 Zone 13

MS



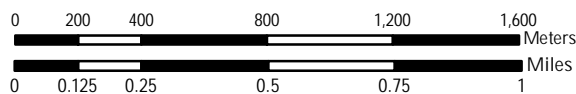
Beaver Creek ARCHAEOLOGY

Matador's 4-Way Riser ROW
Ensolum, LLC
T21S R33E Sec. 31 ; T22S R33E Sec. 6
Grama Ridge(1984) Quad. Map
Landreth-Monument Draws Drainage
Lea County, New Mexico



Legend

- Project Area (5 Acres)
- Workspace Limits (0.7 Acres)
- Previously Surveyed (0.7 Acres)



Base Map: USGS 7.5'
Scale: 1:24,000
UTM NAD83 Zone 13



APPENDIX F

NMOCD Correspondence

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#); jason.touchet@matadorresources.com; arsenio.jones@matadorresources.com; [Clinton Talley](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Matador - 12" 4-Way Riser ROW - Incident Number nAPP2412354447
Date: Wednesday, July 31, 2024 2:20:41 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to October 29, 2024 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

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

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

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

Thank you.

Regards,
Scott

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, July 31, 2024 2:13 PM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Matador - 12" 4-Way Riser ROW - Incident Number nAPP2412354447

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, July 31, 2024 2:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>; clinton.talley@matadorresources.com
Subject: [EXTERNAL] Extension Request - Matador - 12" 4-Way Riser ROW - Incident Number nAPP2412354447

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 for the current deadline of July 31, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the 12" 4-Way Riser ROW Incident Number nAPP2412354447). The release occurred on May 02, 2024, and lateral delineation and vertical delineation sampling to the strictest criteria per NMOCD Table I has been completed at the Site. The release impacted an off-pad area approximately 10, 762 square feet in size on State Trust Land. A Right-of-Entry (ROE) Permit has been submitted to the State Land Office and Beaver Creek Archaeology (Beaver Creek) has been contracted to conduct an ARMS review in accordance with the CPP rule. Once Matador has received an approved ROE permit from State Land, and Beaver Creek has determined that a survey is not required, a sub-contractor will be selected, and remediation/reclamation activities will begin. Matador intends to submit a remediation work plan or closure report after receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until October 29, 2024. Please let me know if you have any further questions regarding this site.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Chad Hamilton](#); [Cole Burton](#); jason.touchet@matadorresources.com; arsenio.jones@matadorresources.com; [Bratcher, Michael, EMNRD](#)
Subject: Re: [EXTERNAL] Extension Request - Matador - 12" 4-Way Riser ROW - Incident Number nAPP2413036737
Date: Wednesday, August 7, 2024 2:31:29 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-ipqwxgov.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Ashley,

Thank you for the correspondence. Your time extension request is approved.
Remediation Due date has been updated to November 4, 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
<http://www.emnrd.nm.gov/oecd>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, August 7, 2024 2:15 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>
Cc: Chad Hamilton <chamilton@ensolum.com>; Cole Burton <cburton@ensolum.com>

Subject: [EXTERNAL] Extension Request - Matador - 12" 4-Way Riser ROW - Incident Number nAPP2413036737

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 for the current deadline of August 06, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the 12" 4-Way Riser ROW (Site) (Incident Number nAPP2413036737). The release occurred on May 08, 2024, and lateral delineation and vertical delineation sampling to the strictest criteria per NMOCD Table I has been completed at the Site. The release impacted an off-pad area approximately 16,000 square feet in size on State Trust Land. A Right-of-Entry (ROE) Permit has been submitted to the State Land Office and Beaver Creek Archaeology (Beaver Creek) has been contracted to conduct an ARMS review in accordance with the CPP rule. Once Matador has received an approved ROE permit from State Land, and Beaver Creek has determined that a survey is not required, a sub-contractor will be selected, and remediation/reclamation activities will begin. Matador intends to submit a remediation work plan or closure report after receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until November 04, 2024. Please let me know if you have any further questions regarding this site.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 381738

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381738
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/16/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 381738

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381738
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/9/2024

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Santa Fe, NM 87505

QUESTIONS

Action 381753

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381753
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/17/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 381753

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381753
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/9/2024

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Santa Fe, NM 87505

QUESTIONS

Action 381760

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381760
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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Santa Fe, NM 87505

CONDITIONS

Action 381760

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381760
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/9/2024

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Santa Fe, NM 87505

QUESTIONS

Action 381769

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381769
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 381769

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381769
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/9/2024

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

QUESTIONS

Action 381773

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381773
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 381773

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381773
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/9/2024

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QUESTIONS

Action 381726

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381726
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 381726

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381726
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
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QUESTIONS

Action 381727

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381727
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
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Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

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CONDITIONS

Action 381727

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381727
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

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QUESTIONS

Action 381729

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
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Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
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CONDITIONS

Action 381729

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 381729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
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QUESTIONS

Action 385237

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 385237
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/23/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 385237

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 385237
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/19/2024

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QUESTIONS

Action 385240

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 385240
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413036737
Incident Name	NAPP2413036737 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	26,762
What is the estimated number of samples that will be gathered	151
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/24/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.42785, -103.60404

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CONDITIONS

Action 385240

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 385240
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/19/2024

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QUESTIONS

Action 392086

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2412354447
Incident Name	NAPP2412354447 12" 4- WAY RISER ROW @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	12" 4- WAY RISER ROW
Date Release Discovered	05/02/2024
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 54 BBL Recovered: 15 BBL Lost: 39 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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: 10/11/2024
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QUESTIONS, Page 3

Action 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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)	7720
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	7880
GRO+DRO	(EPA SW-846 Method 8015M)	5790
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	09/11/2024
On what date will (or did) the final sampling or liner inspection occur	09/24/2024
On what date will (or was) the remediation complete(d)	09/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	18872
What is the estimated volume (in cubic yards) that will be reclaimed	2331
What is the estimated surface area (in square feet) that will be remediated	18872
What is the estimated volume (in cubic yards) that will be remediated	2331

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 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lealand
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/11/2024
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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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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	392086
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	392086
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	385236
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/24/2024
What was the (estimated) number of samples that were to be gathered	151
What was the sampling surface area in square feet	26762

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	18872
What was the total volume (cubic yards) remediated	2331
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	18872
What was the total volume (in cubic yards) reclaimed	2331
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: 10/11/2024
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QUESTIONS, Page 7

Action 392086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	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 392086

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 392086
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/30/2024