



August 27, 2025

**New Mexico Oil Conservation Division**

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

**Re: Closure Request Denial Response  
Closure Request dated July 7, 2025  
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad  
Incident Numbers nAPP2501442555 and nAPP2505848368  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request Denial Response* to the New Mexico Oil Conservation Division (NMOCD) in reference to the *Closure Request*, dated July 7, 2025, prepared by Ensolum for the above reference Site. Ensolum offers the following responses to the NMOCD comments:

- 1. On pg. 2 of report you say: “The closest continuously flowing or significant watercourse to the Site is a playa, located approximately 0.35 miles southwest of the Site.” Per 19.15.2 NMAC, a “watercourse” means a river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water. According to the OCD Environmental Map the closest significant watercourse is 1-5 miles away, located to the SW. Under the Site Characterization portion of the C-141 application the minimum distance to the following is incorrect and requires update upon application resubmission and within the report: any other significant watercourse (between 1 and 5 miles).**

Ensolum acknowledges the NMOCD comment and agrees the identified playa, located approximately 0.35 miles to the southwest of the Site is not a “watercourse” as defined by 19.15.7.7.P NMAC. The Site Characterization portion of the C-141 has been updated accordingly. Based on the new distance included in the Site Characterization, the Closure Criteria does not change the closure requirements for the Site included in the original *Closure Request* and therefore 19.15.29.12C(4) continues to be met.

- 2. Per 19.15.29.11.A.(1) NMAC, a site map should include all surface and subsurface infrastructure on site, in addition to all sample points. This is especially important when there is no satellite imagery due to this being a newly constructed well pad. Include the location of the pumpjack and all site infrastructure in updated Figures.**

On July 15, 2025, Ensolum personnel returned to the Site and mapped all surface and subsurface equipment present on pad. The attached Figure 2 and Figure 3 have been updated to include the on-Site structures.

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- 3. Photographs do not clearly show a 3' excavation area. Attach additional photos of the excavations prior to backfill per 19.15.29.12.E NMAC and include a caption stating which sample points are shown.**

Due to ongoing completions activities on-pad and the safety risks associated with operating a Site in and around a large excavation, the excavation was backfilled immediately following the receipt of final laboratory analytical results. General photographs across the excavation that include portions of the 3-foot excavation area are included in the attached photograph log (Appendix A). Detailed photos of the excavation areas advanced to a depth of 3 feet below ground surface (bgs) could not be obtained due to excavation being backfilled, though Photographs 5 through 8 provide evidence of excavation in this location. Based on the photographs provided in the Closure Request, Matador believes requirements set forth in 19.15.29.12E(1)(b) NMAC have been met.

- 4. Sidewall samples are required to be collected around all the deeper excavations to ensure what remains is not over closure criteria. Lab results could show that the sides need to be extended. Not enough sidewall samples have been collected pursuant to 19.15.29.12.D NMAC. Perimeter of northern 2' excavation area is equal to ~336 ft.  $336 \times 2 = 672 / 200 = 3.36$  which should be rounded up to 4 sidewall samples. Perimeter of 3' excavation area is equal to ~620 ft.  $620 \times 3 = 1,860 / 200 = 9.3$  or 10 sidewall samples. Perimeter of 1' excavation area is equal to ~412 ft.  $412 / 200 = 2.06$  or 3 sidewall samples. In addition, the small 2' excavation area in southern release area should have a sidewall sample collected around it. 18 sidewall samples should have been collected. You are 16 sidewall samples short.**

Ensolum acknowledges the NMOCD request; however, the excavation of impacted soil within the footprint of the excavation graded to various depths ranging from 0.5 feet and 3 feet bgs and were not stepped down to provide identifiable sidewalls for confirmation sampling purposes. During collection of the composite floor samples, soil from the areas transitioning between floor depth changes (1-foot to 3 feet bgs) and the main shallow excavation (0.5 foot bgs) were incorporated into the composite soil samples. The deeper excavation areas were mainly surrounded by the more shallow excavation, with the exception of to the northeast, which was where the sidewall composite soil samples (SW01 and SW02) were collected. Additionally, since the majority of the perimeter of the excavation was excavated to a depth of 0.5 feet bgs, the sidewall soils in those areas were combined with the floor composite soil samples.

Based on the laboratory analytical data, the excavation floor samples FS01 through FS151 indicated all contaminants of concern (COC) concentrations were compliant with the applicable Site Closure Criteria. In addition, the release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS04, SS05B, SS05C, SS06, SS07A, and SS08 through SS12. Based on the confirmation soil samples collected for this excavation, Matador believes 19.15.29.12.D(1) and (1)(c) have been met.

- 5. Because no sidewall samples were collected around the surface scrape area of FS05, and FS06 and FS07 have TPH above reclamation limits, confirm that no impacts left the pad by collecting two grab samples at .5 ft depth, one south of FS05 sample area and the other one south of FS07 sample area, directly off pad. If impacts are found, these must be remediated pursuant to 19.15.29.12 and 13 NMAC.**

On July 15, 2025, Ensolum personnel returned to the Site to collect two additional lateral delineation soil samples (SS11 and SS12) from off-pad locations south of confirmation soil

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sample locations FS05 and FS07 as requested by NMOCD. The soil samples were collected at a depth of 0.5 feet bgs. Soil from the lateral delineation samples were field screened for total petroleum hydrocarbons (TPH) utilizing a calibrated PetroFLAG<sup>®</sup> soil analyzer system and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. 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 COCs: benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. The delineation soil sample locations are depicted on Figure 2. Photographs were taken during the soil sampling activities, and a photographic log is included in Appendix A.

Laboratory analytical results for the delineation soil samples indicated all COCs were in compliance with the strictest Closure Criteria, confirming impacts have not left the on-Site pad, and the release extent has been fully laterally defined. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical report is included as Appendix B. Lateral delineation soil samples SS11 and SS12 corroborate analytical results from lateral delineation soil sample SS02, confirming 19.15.29.A(5) has been met.

## CLOSURE REQUEST

The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS04, SS05B, SS05C, SS06, SS07A and SS08 through SS12, collected at ground surface, and vertically by boreholes BH01 through BH05, collected at depths up to 14 feet bgs. Excavation of impacted soil exceeding the applicable Site Closure Criteria was completed, and excavation floor samples FS01 through FS151, collected at depths ranging from 0.5 feet to 3 feet bgs, and sidewall samples SW01 and SW02, collected from ground surface to 2 feet bgs, were all in compliance with the applicable Site Closure Criteria.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater have requirements set forth in 19.15.29 NMAC have been adhered to and as such, respectfully requests closure for Incident Numbers nAPP2501442555 and nAPP2505848368 until the Site is reconstructed, or the well pad is abandoned.

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

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink, appearing to read "Chad Hamilton".

Chad Hamilton  
Project Geologist

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

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

cc: Jason Touchet, Matador Production Company



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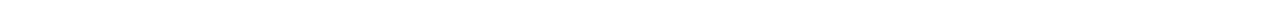


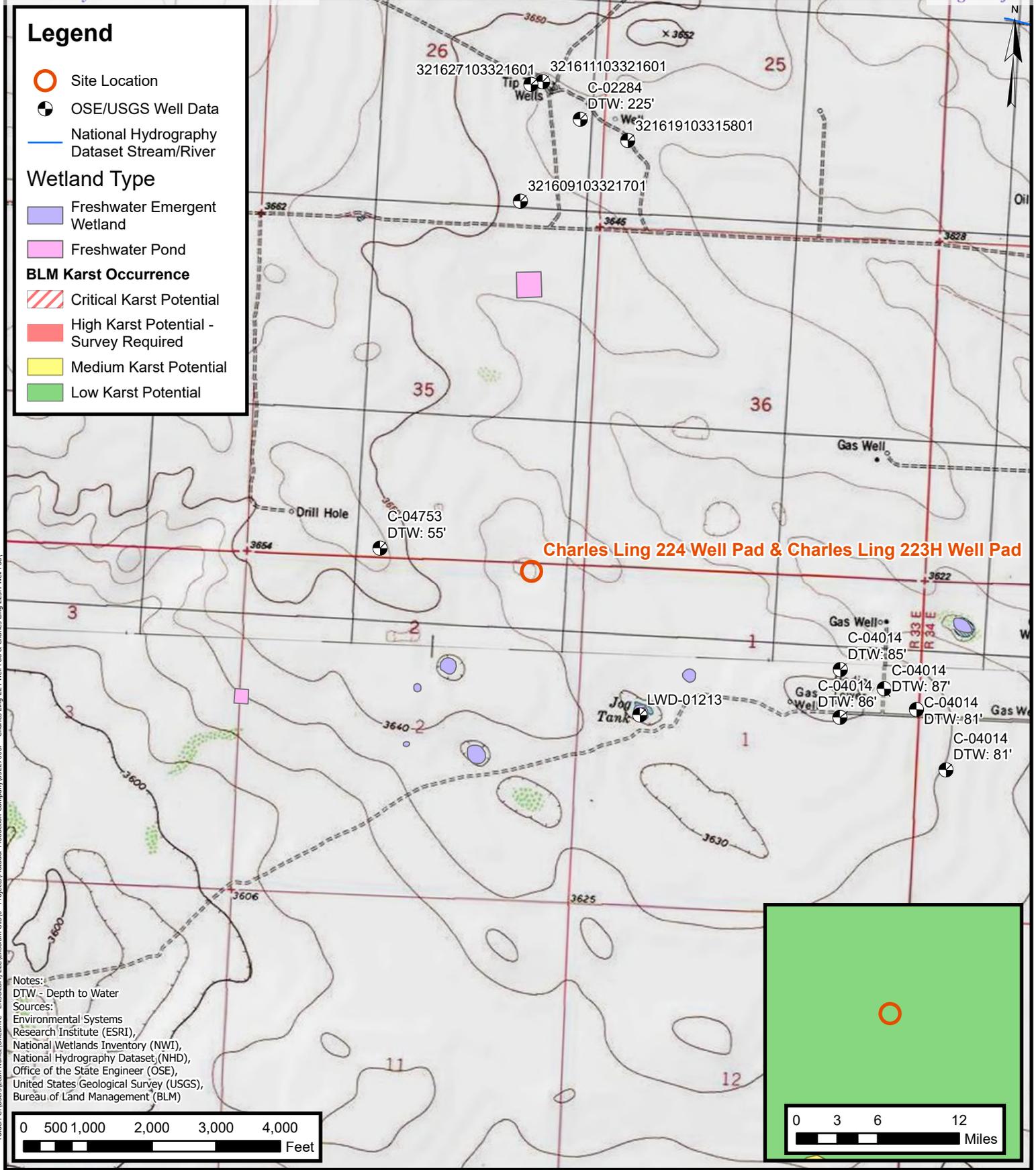
**Attachments:**

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
  
- Table 1 Soil Sample Analytical Results (Delineation Soil Samples)
- Table 2 Soil Sample Analytical Results (Excavation Floor Soil Samples)
- Table 3 Soil Sample Analytical Results (Sidewall Soil Samples)
  
- Appendix A Photographic Log
- Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix C Remediation Closure Request



FIGURES



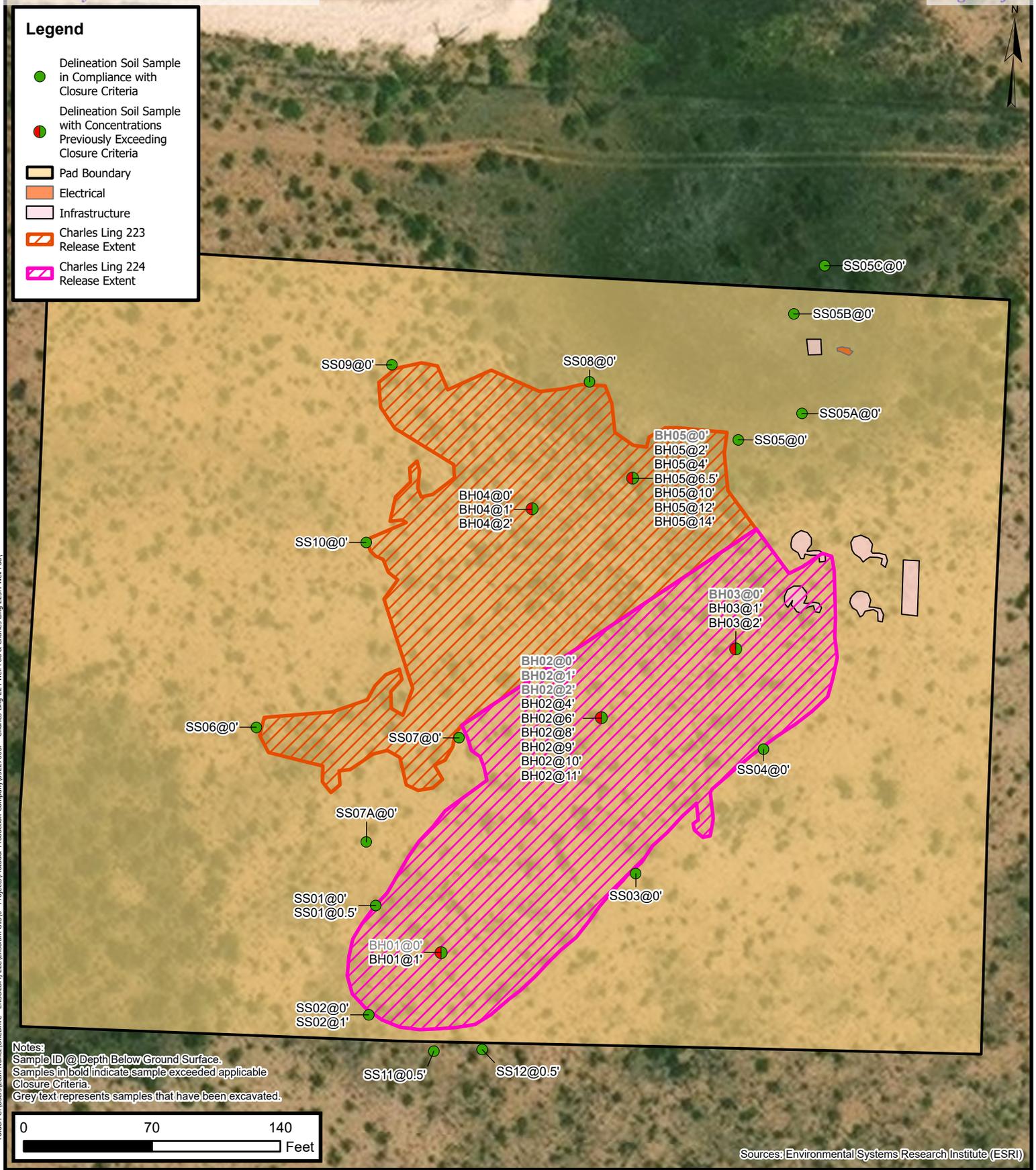


**Site Receptor Map**  
 Matador Production Company  
 Charles Ling 224 Well Pad, Charles Ling 223H Well Pad  
 Incident Numbers:  
 nAPP2501442555, nAPP2505848368  
 Unit A, Section 02, T 24S, R 33E  
 Lea County, New Mexico

**FIGURE**  
**1**

**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Pad Boundary
- Electrical
- Infrastructure
- Charles Ling 223 Release Extent
- Charles Ling 224 Release Extent



# Delineation Soil Sample Locations

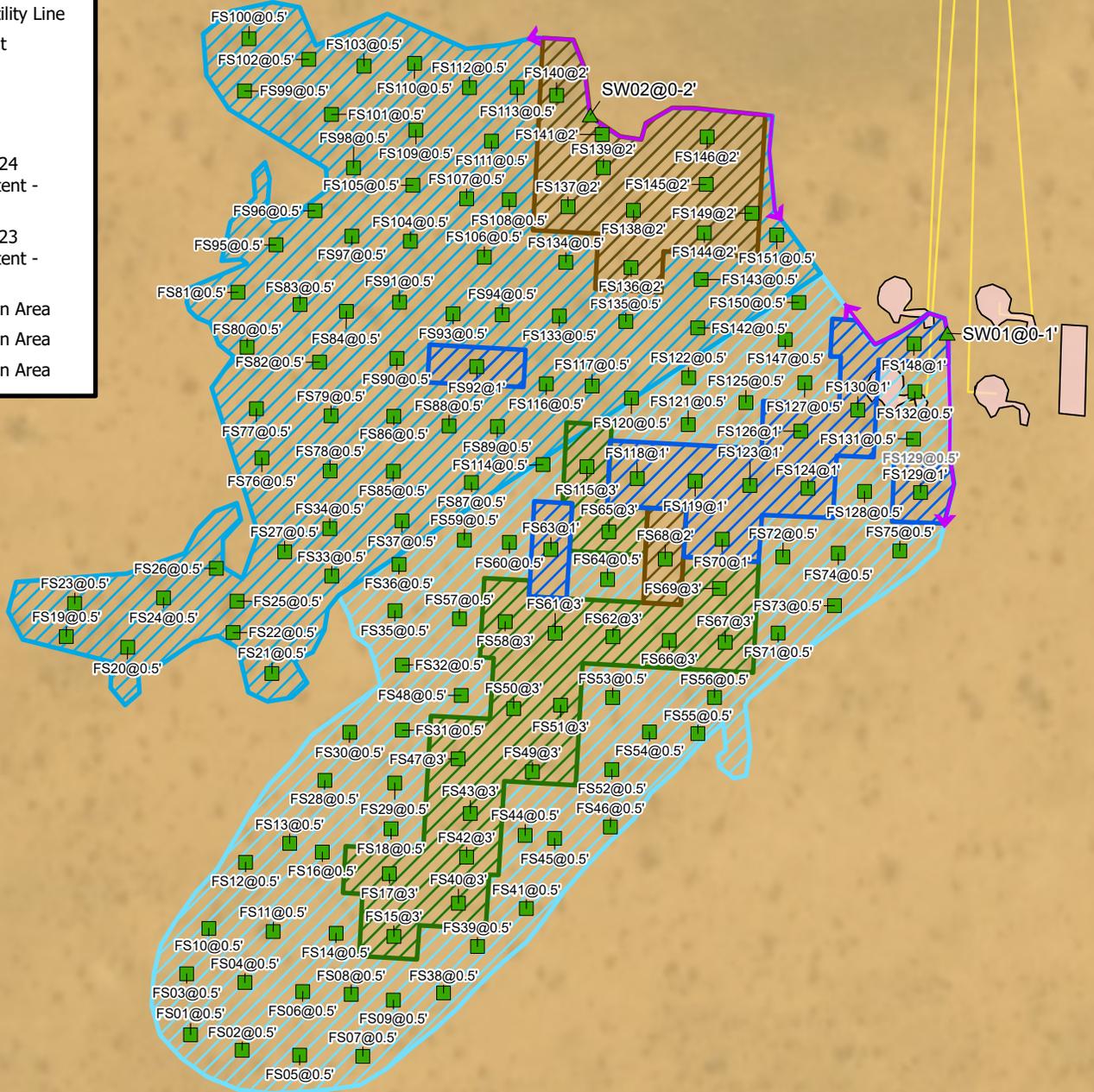
Matador Production Company  
 Charles Ling 224 Well Pad, Charles Ling 223H Well Pad  
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 nAPP2501442555, nAPP2505848368  
 Unit A, Section 02, T 24S, R 33E  
 Eddy County, New Mexico

**FIGURE**  
**2**



### Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- ◆ Sidewall Extent
- Pad Boundary
- Electrical
- Infrastructure
- Charles Ling 224 Excavation Extent - 0.5ft
- Charles Ling 223 Excavation Extent - 0.5ft
- 1ft - Excavation Area
- 2ft - Excavation Area
- 3ft - Excavation Area



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



Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Locations

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 Unit A, Section 02, T 24S, R 33E  
 Eddy County, New Mexico

### FIGURE

# 3





TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
SS01	3/5/2025	0	<0.0250	<0.0500	<20.0	37.8	<50.0	37.8	37.8	321
SS01	3/5/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
SS02	3/5/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	253
SS02	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.8
SS03	3/5/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
SS04	3/6/2025	0	<0.0250	<0.0500	<20.0	43.8	<50.0	<25.0	43.8	217
SS05	4/16/2025	0	<0.0250	<0.0500	<20.0	241	88.8	241	330	506
SS05A	4/16/2025	0	<0.0250	<0.0500	<20.0	462	99.3	462	561.3	449
SS05B	4/16/2025	0	<0.0250	<0.0500	<20.0	36.7	<50.0	36.7	36.7	130
SS05C	4/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	180
SS06	3/6/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	474
SS07	3/5/2025	0	<0.0250	<0.0500	<20.0	77.7	80.9	77.7	159	402
SS07A	5/15/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	196
SS08	3/6/2025	0	<0.0250	<0.0500	<20.0	48.6	<50.0	<25.0	48.6	388
SS09	3/6/2025	0	<0.0250	<0.0500	<20.0	40.9	<50.0	<25.0	40.9	108
SS10	3/6/2025	0	<0.0250	<0.0500	<20.0	49.2	<50.0	<25.0	49.2	292
SS11	7/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS12	7/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	3/5/2025	0	<0.0250	<0.0500	<20.0	150	200.0	150	350	1,860
BH01	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	3/5/2025	0	<0.0250	<0.0500	<20.0	3,300	4,240	3,300	7,540	28,200
BH02	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	56.9	<25.0	56.9	10,400
BH02	3/12/2025	2	<0.0250	<0.0500	<20.0	418	731	418	1,149	10,800
BH02	3/12/2025	4	<0.0250	<0.0500	<20.0	43.1	68.6	43.1	111.7	6,600

**TABLE 1 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
BH02	3/12/2025	6	<0.0250	<0.0500	<20.0	43.9	68.3	43.9	112.2	4,400
BH02	4/16/2025	8	<0.0250	<0.0500	<20.0	190	247	190	437	2,670
BH02	4/16/2025	9	<0.0250	<0.0500	<20.0	29.0	59.1	29.0	88.1	605
BH02	4/16/2025	10	<0.0250	<0.0500	<20.0	74.8	79.0	74.8	153.8	2,170
BH02	4/16/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	289
BH03	3/12/2025	0	<0.0250	<0.0500	<20.0	232	269	232	501	<b>20,700</b>
BH03	3/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	253
BH03	3/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	516
BH04	3/12/2025	0	<0.0250	0.0710	<20.0	455	1,570.0	455	2,025	3,370
BH04	3/12/2025	1	<0.0250	<0.0500	<20.0	32.1	71.8	32.1	103.9	501
BH04	3/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
BH05	3/12/2025	0	<0.0250	<0.0500	<20.0	22,900	1,730.0	22,900	24,630	2,370
BH05	3/12/2025	2	<0.0250	0.2019	<20.0	44.5	<50.0	44.5	44.5	343
BH05	3/12/2025	4	<0.0250	<0.0500	<20.0	537	<50.0	537	537	1,710
BH05	3/12/2025	6.5	<0.0250	<0.0500	<20.0	379	<50.0	379	379	321
BH05	4/16/2025	10	<0.0250	<0.0500	<20.0	169	<50.0	169	169	893
BH05	4/16/2025	12	<0.0250	<0.0500	<20.0	474	<50.0	474	474	501
BH05	4/16/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	86.9

**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**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	171
FS02	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
FS03	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS04	5/9/2025	0.5	<0.0250	<0.0500	<20.0	28.2	<50.0	28.2	28.2	744
FS05	5/9/2025	0.5	<0.0250	<0.0500	<20.0	38.8	55.1	38.8	93.9	177
FS06	5/9/2025	0.5	<0.0250	<0.0500	<20.0	61.5	68.8	61.5	130.3	210
FS07	5/9/2025	0.5	<0.0250	<0.0500	<20.0	53.9	58.3	53.9	112.2	121
FS08	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS09	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS10	5/9/2025	0.5	<0.0250	<0.0500	<20.0	39.4	<50.0	39.4	39.4	347
FS11	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	174
FS12	5/9/2025	0.5	<0.0250	<0.0500	<20.0	35.6	<50.0	35.6	35.6	315
FS13	5/9/2025	0.5	<0.0250	<0.0500	<20.0	27.9	<50.0	27.9	27.9	448
FS14	5/9/2025	0.5	<0.0250	<0.0500	<20.0	93.7	106	93.7	199.7	184
FS15	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106
FS16	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	484
FS17	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS18	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,060
FS19	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
FS20	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS21	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.0	<50.0	36.0	36.0	2,350
FS22	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,530

**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS23	5/8/2025	0.5	<0.0250	<0.0500	<20.0	26.0	<50.0	26.0	26.0	2,340
FS24	5/8/2025	0.5	<0.0250	<0.0500	<20.0	37.2	<50.0	37.2	37.2	3,390
FS25	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
FS26	5/9/2025	0.5	<0.0250	<0.0500	<20.0	26.2	<50.0	26.2	26.2	9,700
FS27	5/9/2025	0.5	<0.0250	<0.0500	<20.0	47.3	55.5	47.3	102.8	2,480
FS28	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS29	5/9/2025	0.5	<0.0250	<0.0500	<20.0	28.8	<50.0	28.8	28.8	2,150
FS30	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	848
FS31	5/9/2025	0.5	<0.0250	<0.0500	<20.0	43.9	62.3	43.9	106.2	3,050
FS32	5/9/2025	0.5	<0.0250	<0.0500	<20.0	280	452	280	732	3,020
FS33	5/9/2025	0.5	<0.0250	<0.0500	<20.0	481	990	481	1,471	1,080
FS34	5/9/2025	0.5	<0.0250	<0.0500	<20.0	454	761	454	1,215	2,500
FS35	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.9	79.7	36.9	116.6	3,870
FS36	5/9/2025	0.5	<0.0250	<0.0500	<20.0	188	215.0	188	403	5,370
FS37	5/14/2025	0.5	<0.0250	<0.0500	<20.0	475	859.0	475	1,334	5,320
FS38	5/9/2025	0.5	<0.0250	<0.0500	<20.0	44.6	85.2	44.6	129.8	50.5
FS39	5/9/2025	0.5	<0.0250	<0.0500	<20.0	32.1	69.1	32.1	101.2	117
FS40	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116
FS41	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	182
FS42	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	320
FS43	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	736
FS44	5/12/2025	0.5	<0.0250	<0.0500	<20.0	29.7	<50.0	29.7	29.7	319



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS45	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	212
FS46	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
FS47	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
FS48	5/9/2025	0.5	<0.0250	<0.0500	<20.0	105	186	105	291	3,060
FS49	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,620
FS50	5/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,190
FS51	5/13/2025	3	<0.0250	<0.0500	<20.0	41.2	<50.0	41.2	41.2	3,010
FS52	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
FS53	5/12/2025	0.5	<0.0250	<0.0500	<20.0	68.0	<50.0	68.0	<50.0	396
FS54	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
FS55	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,110
FS56	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	863
FS57	5/9/2025	0.5	<0.0250	<0.0500	<20.0	108	135	108	243	1,980
FS58	5/13/2025	3	<0.0250	<0.0500	<20.0	30.2	<50.0	30.2	30.2	3,620
FS59	5/14/2025	0.5	<0.0250	<0.0500	<20.0	146	101	146	247	1,820
FS60	5/15/2025	0.5	<0.0250	<0.0500	<20.0	290	134	290	424	5,280
FS61	5/14/2025	3	<0.0250	<0.0500	<20.0	35.2	<50.0	35.2	35.2	5,730
FS62	5/13/2025	3	<0.0250	<0.0500	<20.0	61.9	64.3	61.9	126.2	515
FS63	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,330
FS64	5/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,030
FS65	5/13/2025	3	<0.0250	<0.0500	<20.0	42.0	<50.0	42.0	42.0	1,410
FS66	5/13/2025	3	<0.0250	<0.0500	<20.0	39.2	50.5	39.2	89.7	543

**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS67	5/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
FS68	5/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,390
FS69	5/13/2025	3	<0.0250	<0.0500	<20.0	25.5	<50.0	25.5	25.5	1,220
FS70	5/14/2025	1	<0.0250	<0.0500	<20.0	31.5	<50.0	31.5	31.5	1,000
FS71	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	462
FS72	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	192
FS73	5/12/2025	0.5	<0.0250	<0.0500	<20.0	89.1	84.6	89.1	173.7	486
FS74	5/14/2025	0.5	<0.0250	<0.0500	<20.0	218	249	218	467	641
FS75	5/12/2025	0.5	<0.0250	<0.0500	<20.0	67.6	115	67.6	182.6	3,580
FS76	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.9	<50.0	36.9	36.9	3,670
FS77	5/9/2025	0.5	<0.0250	<0.0500	<20.0	523	540	523	1,063	2,670
FS78	5/9/2025	0.5	<0.0250	<0.0500	<20.0	147	204	147	351	1,830
FS79	5/9/2025	0.5	<0.0250	<0.0500	<20.0	230	449	230	679	2,710
FS80	5/9/2025	0.5	<0.0250	<0.0500	<20.0	67.9	142	67.9	209.9	763
FS81	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.5	52.3	36.5	88.8	1,670
FS82	5/9/2025	0.5	<0.0250	<0.0500	<20.0	289	159	289	448	885
FS83	5/9/2025	0.5	<0.0250	<0.0500	<20.0	77.3	126	77.3	203.3	1,170
FS84	5/9/2025	0.5	<0.0250	<0.0500	<20.0	79.1	90.5	79.1	169.6	2,020
FS85	5/14/2025	0.5	<0.0250	<0.0500	<20.0	426	304	426	730	5,200
FS86	5/14/2025	0.5	<0.0250	<0.0500	<20.0	238	106	238	344	3,170
FS87	5/14/2025	0.5	<0.0250	<0.0500	<20.0	290	147	290	437	4,280
FS88	5/14/2025	0.5	<0.0250	<0.0500	<20.0	144	96.3	144	240.3	2,730



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS89	5/15/2025	0.5	<0.0250	<0.0500	<20.0	240	144	240	384	1,970
FS90	5/14/2025	0.5	<0.0250	<0.0500	<20.0	44.8	<50.0	44.8	44.8	3,630
FS91	5/14/2025	0.5	<0.0250	<0.0500	<20.0	86.5	53.5	86.5	140	4,240
FS92	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS93	5/15/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,270
FS94	5/15/2025	0.5	<0.0250	<0.0500	<20.0	325	113	325	438	5,130
FS95	5/14/2025	0.5	<0.0250	<0.0500	<20.0	167	201	167	368	3,920
FS96	5/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,360
FS97	5/9/2025	0.5	<0.0250	<0.0500	<20.0	30.8	<50.0	30.8	30.8	4,290
FS98	5/14/2025	0.5	<0.0250	<0.0500	<20.0	105	66.7	105	171.7	1,400
FS99	5/13/2025	0.5	<0.0250	<0.0500	<20.0	25.4	<50.0	25.4	25.4	367
FS100	5/13/2025	0.5	<0.0250	<0.0500	<20.0	37.6	<50.0	37.6	37.6	1,930
FS101	5/13/2025	0.5	<0.0250	<0.0500	<20.0	49.1	53.0	49.1	102	609
FS102	5/13/2025	0.5	<0.0250	<0.0500	<20.0	47.9	<50.0	47.9	47.9	780
FS103	5/13/2025	0.5	<0.0250	<0.0500	<20.0	64.1	72.8	64.1	136.9	861
FS104	5/14/2025	0.5	<0.0250	<0.0500	<20.0	184	141	184	325	5,130
FS105	5/15/2025	0.5	<0.0250	<0.0500	<20.0	123	115	123	238	699
FS106	5/15/2025	0.5	<0.0250	<0.0500	<20.0	35.2	52.6	35.2	87.8	6,000
FS107	5/14/2025	0.5	<0.0250	<0.0500	<20.0	92.8	<50.0	92.8	92.8	3,630
FS108	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
FS109	5/13/2025	0.5	<0.0250	<0.0500	<20.0	137	97.7	137	235	2,460
FS110	5/13/2025	0.5	<0.0250	<0.0500	<20.0	106	96.3	106	202	741

**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS111	5/12/2025	0.5	<0.0250	<0.0500	<20.0	863	<50.0	863	863	1,840
FS112	5/13/2025	0.5	<0.0250	<0.0500	<20.0	158	<50.0	158	158	1,260
FS113	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	759
FS114	5/14/2025	0.5	<0.0250	<0.0500	<20.0	136	93.9	136	230	1,740
FS115	5/13/2025	3	<0.0250	<0.0500	<20.0	66.2	68.1	66.2	134.3	1,580
FS116	5/14/2025	0.5	<0.0250	<0.0500	<20.0	96.3	51.5	96.3	147.8	5,950
FS117	5/14/2025	0.5	<0.0250	<0.0500	<20.0	131	97.3	131	228	3,480
FS118	5/14/2025	1	<0.0250	<0.0500	<20.0	40.0	<50.0	40.0	40.0	1,070
FS119	5/14/2025	1	<0.0250	<0.0500	<20.0	37.0	<50.0	37.0	37.0	2,970
FS120	5/14/2025	0.5	<0.0250	<0.0500	<20.0	338	389	338	727	2,780
FS121	5/12/2025	0.5	<0.0250	<0.0500	<20.0	34.6	<50.0	34.6	34.6	1,170
FS122	5/12/2025	0.5	<0.0250	<0.0500	<20.0	119	134	119	253	3,520
FS123	5/14/2025	1	<0.0250	<0.0500	<20.0	237	186	237	423	1,120
FS124	5/12/2025	1	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	37.9	1,220
FS125	5/12/2025	0.5	<0.0250	<0.0500	<20.0	174	167	174	341	1,040
FS126	5/14/2025	1	<0.0250	<0.0500	<20.0	84.1	83.5	84.1	167.6	921
FS127	5/12/2025	0.5	<0.0250	<0.0500	<20.0	284	210	284	494	2,120
FS128	5/14/2025	0.5	<0.0250	<0.0500	<20.0	109	101	109	210	2,730
FS129	5/14/2025	0.5	<0.0250	<0.0500	<20.0	988	1,820	988	2,808	614
FS129	6/2/2025	1	<0.0250	<0.0500	<20.0	725	1,380	725	2,105	2,460
FS130	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,350
FS131	5/14/2025	0.5	<0.0250	<0.0500	<20.0	486	728	486	1,214	4,200



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS132	5/14/2025	0.5	<0.0250	<0.0500	<20.0	499	376	499	875	2,590
FS133	5/14/2025	0.5	<0.0250	<0.0500	<20.0	27.6	<50.0	27.6	27.6	3,790
FS134	5/12/2025	0.5	<0.0250	<0.0500	<20.0	57.0	<50.0	57.0	57.0	3,340
FS134	5/14/2025	0.5	<0.0250	<0.0500	<20.0	279	99.6	279	378.6	5,430
FS135	5/14/2025	0.5	<0.0250	<0.0500	<20.0	220	80.6	220	300.6	3,550
FS136	5/12/2025	2	<0.0250	<0.0500	<20.0	464	<50.0	464	464	356
FS137	5/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.6
FS138	5/13/2025	2	<0.0250	<0.0500	<20.0	37.3	<50.0	37.3	37.3	29.1
FS139	5/13/2025	2	<0.0250	<0.0500	<20.0	95.7	<50.0	95.7	95.7	146
FS140	5/12/2025	2	<0.0250	<0.0500	<20.0	575	107	575	682	751
FS141	5/12/2025	2	<0.0250	<0.0500	<20.0	667	<50.0	667	667	1,270
FS142	5/12/2025	0.5	<0.0250	<0.0500	<20.0	134	84.1	134	218.1	1,420
FS143	5/12/2025	0.5	<0.0250	<0.0500	<20.0	410	208	410	618	1,070
FS144	5/13/2025	2	<0.0250	<0.0500	<20.0	185	<50.0	185	185	112
FS145	5/12/2025	2	<0.0250	<0.0500	<20.0	246	<50.0	246	246	232
FS146	6/2/2025	2	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	37.9	98.0
FS147	5/12/2025	0.5	<0.0250	<0.0500	<20.0	647	877	647	1,524	2,170
FS148	6/2/2025	1	<0.0250	<0.0500	<20.0	43.8	67.0	43.8	111	887
FS149	5/12/2025	2	<0.0250	<0.0500	<20.0	269	<50.0	269	269	228
FS150	5/12/2025	0.5	<0.0250	<0.0500	<20.0	275	141	275	416	1,840
FS151	5/12/2025	0.5	<0.0250	<0.0500	<20.0	60.0	<50.0	60.0	60.0	1,110

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: 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 NMOCDC 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**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Sidewall Soil Samples</b>										
SW01	5/15/2025	0-1	<0.0250	<0.0500	<20.0	594	999	594	1,593	4,290
SW02	5/14/2025	0-2	<0.0250	<0.0500	<20.0	65.7	<50.0	65.7	65.7	148

**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*



APPENDIX A  
Photographic Log

---

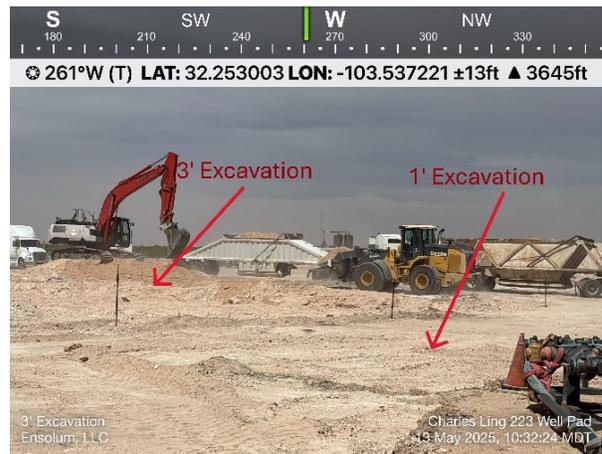


### Photographic Log

Matador Production Company  
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad  
Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 5 Date: 05/09/2025  
Description: 3 Foot Excavation Area  
View: Southwest



Photograph 6 Date: 05/13/2025  
Description: 3 and 1 Foot Excavation Area  
View: West



Photograph 7 Date: 05/14/2025  
Description: 3 Foot Excavation Area  
View: West



Photograph 8 Date: 05/14/2025  
Description: 3 Foot Excavation Area  
View: North



**Photographic Log**

Matador Production Company

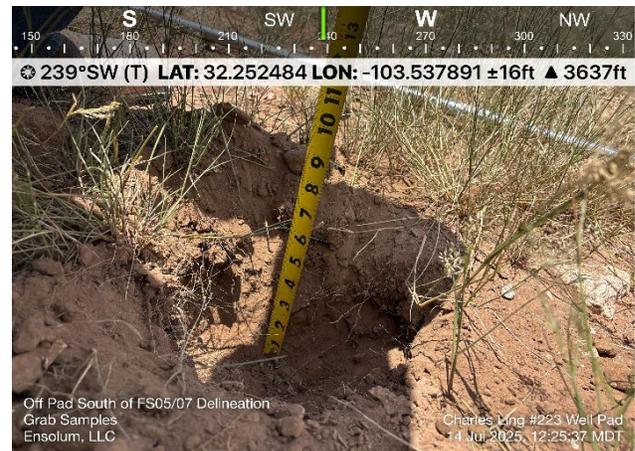
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 29 Date: 07/14/2025  
Description: Sampling Activities 224 & 223H Well Pad  
View: North

Photograph 30 Date: 07/14/2025  
Description: Sampling Activities 224 & 223H Well Pad  
View: East



Photograph 30 Date: 07/14/2025  
Description: Sampling Activities SS12  
View: West

Photograph 40 Date: 07/14/2025  
Description: Sampling Activities SS11  
View: Southwest



## APPENDIX B

# Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling #223 Well Pad

Work Order: E507162

Job Number: 23003-0002

Received: 7/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/17/25

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: 7/17/25

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

Project Name: Charles Ling #223 Well Pad  
Workorder: E507162  
Date Received: 7/16/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/16/2025 8:00:00AM, under the Project Name: Charles Ling #223 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling #223 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/17/25 16:50
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS11-0.5'	E507162-01A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
SS12-0.5'	E507162-02A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
---	--	---

**SS11-0.5'**

**E507162-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/16/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/16/25	
Toluene	ND	0.0250	1	07/15/25	07/16/25	
o-Xylene	ND	0.0250	1	07/15/25	07/16/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/16/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.7 %	70-130	07/15/25	07/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	07/15/25	07/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		84.1 %	61-141	07/15/25	07/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529075
Chloride	ND	20.0	1	07/15/25	07/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
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SS12-0.5'

E507162-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/16/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/16/25	
Toluene	ND	0.0250	1	07/15/25	07/16/25	
o-Xylene	ND	0.0250	1	07/15/25	07/16/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/16/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.4 %	70-130	07/15/25	07/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.9 %	70-130	07/15/25	07/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		84.4 %	61-141	07/15/25	07/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529075
Chloride	ND	20.0	1	07/15/25	07/16/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
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#### Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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#### Blank (2529077-BLK1)

Prepared: 07/15/25 Analyzed: 07/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

#### LCS (2529077-BS1)

Prepared: 07/15/25 Analyzed: 07/16/25

Benzene	5.51	0.0250	5.00		110	70-130			
Ethylbenzene	5.45	0.0250	5.00		109	70-130			
Toluene	5.48	0.0250	5.00		110	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.5	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

#### Matrix Spike (2529077-MS1)

Source: E507148-06

Prepared: 07/15/25 Analyzed: 07/16/25

Benzene	5.37	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130			
Toluene	5.34	0.0250	5.00	ND	107	70-130			
o-Xylene	5.37	0.0250	5.00	ND	107	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

#### Matrix Spike Dup (2529077-MSD1)

Source: E507148-06

Prepared: 07/15/25 Analyzed: 07/16/25

Benzene	5.89	0.0250	5.00	ND	118	70-130	9.11	27	
Ethylbenzene	5.82	0.0250	5.00	ND	116	70-130	9.32	26	
Toluene	5.86	0.0250	5.00	ND	117	70-130	9.19	20	
o-Xylene	5.84	0.0250	5.00	ND	117	70-130	8.32	25	
p,m-Xylene	11.8	0.0500	10.0	ND	118	70-130	8.98	23	
Total Xylenes	17.6	0.0250	15.0	ND	118	70-130	8.76	26	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2529077-BLK1)**

Prepared: 07/15/25 Analyzed: 07/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

**LCS (2529077-BS2)**

Prepared: 07/15/25 Analyzed: 07/16/25

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

**Matrix Spike (2529077-MS2)**

Source: E507148-06

Prepared: 07/15/25 Analyzed: 07/16/25

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

**Matrix Spike Dup (2529077-MSD2)**

Source: E507148-06

Prepared: 07/15/25 Analyzed: 07/16/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.3	70-130	12.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2529060-BLK1)**

Prepared: 07/15/25 Analyzed: 07/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.3	61-141			

**LCS (2529060-BS1)**

Prepared: 07/15/25 Analyzed: 07/16/25

Diesel Range Organics (C10-C28)	274	25.0	250		109	66-144			
Surrogate: n-Nonane	47.7		50.0		95.4	61-141			

**Matrix Spike (2529060-MS1)**

Source: E507134-21

Prepared: 07/15/25 Analyzed: 07/16/25

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	56-156			
Surrogate: n-Nonane	47.7		50.0		95.3	61-141			

**Matrix Spike Dup (2529060-MSD1)**

Source: E507134-21

Prepared: 07/15/25 Analyzed: 07/16/25

Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	0.188	20	
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/17/2025 4:50:38PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2529075-BLK1)**

Prepared: 07/15/25 Analyzed: 07/15/25

Chloride	ND	20.0							
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**LCS (2529075-BS1)**

Prepared: 07/15/25 Analyzed: 07/15/25

Chloride	251	20.0	250		100	90-110			
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**Matrix Spike (2529075-MS1)**

Source: E507140-03

Prepared: 07/15/25 Analyzed: 07/15/25

Chloride	418	20.0	250	161	103	80-120			
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**Matrix Spike Dup (2529075-MSD1)**

Source: E507140-03

Prepared: 07/15/25 Analyzed: 07/15/25

Chloride	439	20.0	250	161	111	80-120	4.83	20	
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/17/25 16:50
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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 Information				Invoice Information				Lab Use Only				TAT				State					
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Charles Ling #223 Well Pad				Address: 3122 National Parks Hwy				E5871102		23005-002		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/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA			
1226	07/14/2025	s	1	SS11 - 0.5'		1								X							
1221	07/14/2025	s	1	SS12 - 0.5'		2								X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Eric Plugge																					
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 on ice at a temp above 0 but less than 6°C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> N															
	7-15-25	1300		7-15-25	1300																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
	7-15-25	1730		7-15-25	1730																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
	7-15-25	2215		7-16-25	1000																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

### Envirotech Analytical Laboratory

Printed: 7/16/2025 9:29:59AM

#### 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: 07/16/25 08:00	Work Order ID: E507162
Phone: (972) 371-5200	Date Logged In: 07/15/25 15:57	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 07/16/25 17:00 (0 day TAT)	

#### Chain of Custody (COC)

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

Carrier: Courier

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

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

#### 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

#### Comments/Resolution

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

Date



envirotech Inc.



## APPENDIX C

# Remediation Closure Request

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July 7, 2025

**New Mexico Energy and Natural Resources Department**

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

**Re: Closure Request  
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad  
Incident Numbers nAPP2501442555 & nAPP2505848368  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* summarizing the response efforts and remediation activities performed at the Charles Ling 224 Well Pad and Charles Ling 223H Well Pad (Site), located in Unit A, Section 02, Township 24 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following two releases of produced water at the Site. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting no further action for Incident Number nAPP2501442555 & nAPP2505848368.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Lea County, New Mexico (32.25347°, -103.53718°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On January 13, 2025, a nipple washed out on a chocksun on the high-pressure frack manifold resulting in the release of 47 barrels (bbls) of produced water onto the caliche pad (please note, Figures 2 and 3 do not depict the newly constructed well pad that the release encompassed). A vacuum truck successfully recovered 6 bbls of produced water. The release impacted an area approximately 29,084 square feet in size on-pad. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on January 14, 2025, and subsequently the release was assigned Incident Number nAPP2501442555.

On February 27, 2025, personnel over pressured the hair pin line on the wellhead resulting in the release of 17 bbls of produced water onto the caliche pad; 0 bbls of produced water were recovered. The release impacted an area approximately 28,825 square feet in size directly next to and overlapping the produced water release associated with incident number nAPP2501442555. Matador reported the second release to the NMOCD via web portal on February 27, 2025, and subsequently the release was assigned Incident Number nAPP2505848368.

## 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 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04753 POD1 with a depth to water measurement greater than 55 feet below ground surface (bgs). The well is located 0.45 miles northwest of the Site and the most recent documented water level measurement was collected on July 31, 2023. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a playa, located approximately 0.35 miles southwest 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
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg
- Chloride: 10,000 mg/kg

## CULTURAL RESOURCE SURVEY

Since the releases remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

## DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on March 05 and 06, 2025, Ensolum personnel arrived onsite to conduct lateral and vertical delineation soil sampling activities. Two lateral delineation sample locations (SS01 and SS02) were collected at ground surface at a depth of 1-foot bgs and seven lateral delineation soil samples (SS03, SS04, SS06, SS07, and SS08 through SS10) were collected from around the release extent to verify the lateral extent of impacted soil. Two boreholes (BH01 and BH02) were advanced within the release extent to a depth of 1-foot bgs via hand auger. Delineation soil samples were field screened for chloride and TPH utilizing Hatch® QuanTab® chloride test strips and a PetroFLAG® Soil Analyzer System, respectively. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

On March 12, 2025, Ensolum personnel returned to the Site to advance borehole BH02 to a depth of 6 feet bgs, boreholes BH03 through BH04 to a depth of 2 feet bgs, and borehole BH05 to a depth of

6.5 feet bgs within the release extent via backhoe. Discrete soil samples were collected from the boreholes and field screened for chloride and for volatile organic compounds (VOC's) with a calibrated Honeywell® photoionization detector (PID). Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B.

Ensolum personnel returned to the Site on April 16, 2025, to advance borehole BH02 to a depth of 11 feet bgs and borehole BH05 to a depth of 14 feet bgs with a Geoprobe® 7822DT drill rig. Delineation soil samples were field screened for chloride and TPH. Four additional lateral delineation soil samples (SS05 through SS05C) were collected from around the northeast side of the release extents.

All delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants 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.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS02, collected at ground surface and 1-foot bgs, were in compliance with the strictest Closure Criteria and with the Site Closure Criteria. Laboratory analytical results for lateral delineation soil samples SS03, SS04, SS06, SS07A, and SS08 through SS10 were in compliance with the strictest Closure Criteria and with the Site Closure Criteria at ground surface. Lateral Delineation soil sample SS07 exceeded the strictest Closure Criteria at ground surface; however, it was in compliance with the Site Closure Criteria.

Borehole BH01 exceeded the Site Closure Criteria at ground surface; however, all COC concentrations were in compliance with the strictest Closure Criteria and with the Site Closure Criteria at a depth of 1-foot bgs. Laboratory analytical results for borehole BH02 indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria at ground surface to a depth of 2 feet bgs. Laboratory analytical results for boreholes BH03 and BH05 indicated COC concentrations exceeded the Site Closure Criteria at ground surface but were in compliance with the strictest Closure Criteria at a depth of 1-foot bgs in boreholes BH03 and 2 feet bgs in borehole BH05. Borehole BH04 was in compliance with the Site Closure Criteria at ground surface and in compliance with the strictest Closure Criteria at a depth of 2 feet bgs. Boreholes BH02 and BH05 were in compliance with the strictest Closure Criteria at a terminal depth of 11 feet and 14 feet bgs, respectively. Boreholes BH03 and BH04 were in compliance with the strictest Closure Criteria at a depth of 1-foot bgs and 2 feet bgs respectively. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

## EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on March 08, 2025, impacted soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a hydro-vac, track hoe, front-end loader, backhoe, and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH utilizing the processes described above.

Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS151 were collected from the floor of the excavation at depths ranging from 0.5 feet to 3 feet bgs. Composite soil samples SW01 and SW02 were collected from the excavation sidewalls ranging in depth from the ground surface to 2 feet bgs. The majority of the excavation was excavated to 0.5 feet bgs and

as such, sidewall samples in those areas were combined with floor confirmation samples hence, only two sidewall samples were collected. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 60,534 square feet. A total of approximately 1,406 cubic yards of impacted soil associated with Incident Number nAPP2501442555 and a total of approximately 938 cubic yards of impacted soil associated with Incident Number nAPP2505848368 were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Northern Delaware Facility in Jal, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor soil samples FS01 through FS151 indicated all COC concentrations were compliant with the Site Closure Criteria per NMOCD Table I at depths ranging from 0.5 feet to 3 feet bgs. Laboratory analytical results for excavation sidewall soil samples SW01 and SW02 indicated all COC concentrations were compliant with the Site Closure Criteria per NMOCD Table I at depths ranging from ground surface to 2 feet bgs. Laboratory analytical results are summarized in Tables 2 and 3 and the complete laboratory analytical reports are included as Appendix D.

## RECLAMATION PLAN

The releases remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release areas are not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC. The excavation was backfilled with locally sourced caliche to match the well pad's current grade. The backfilled area was not seeded since it is within the active well pad, Erosion control management is not necessary since the backfilled area is within the active well pad.

## CLOSURE REQUEST

The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS04, SS05B, SS05C, SS06, SS07A and SS08 through SS10, collected at ground surface, and vertically by boreholes BH01 through BH05, collected at depths up to 14 feet bgs. Excavation of impacted soil was completed, and excavation floor samples (FS01 through FS151, collected at depths ranging from 0.5 feet to 3 feet bgs, and sidewall samples SW01 and SW02, collected from ground surface to 2 feet bgs, were all in compliance with the Site Closure Criteria.

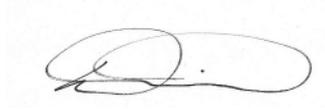
Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Numbers nAPP2501442555 & nAPP2505848368.

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

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Associate Principal



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

**Appendices:**

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
  
- Table 1 Soil Sample Analytical Results (Delineation Soil Samples)
- Table 2 Soil Sample Analytical Results (Excavation Soil Samples)
- Table 3 Soil Sample Analytical Results (Excavation Sidewall Soil Samples)
  
- Appendix A Referenced Well Records
- Appendix B Lithological Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Correspondence



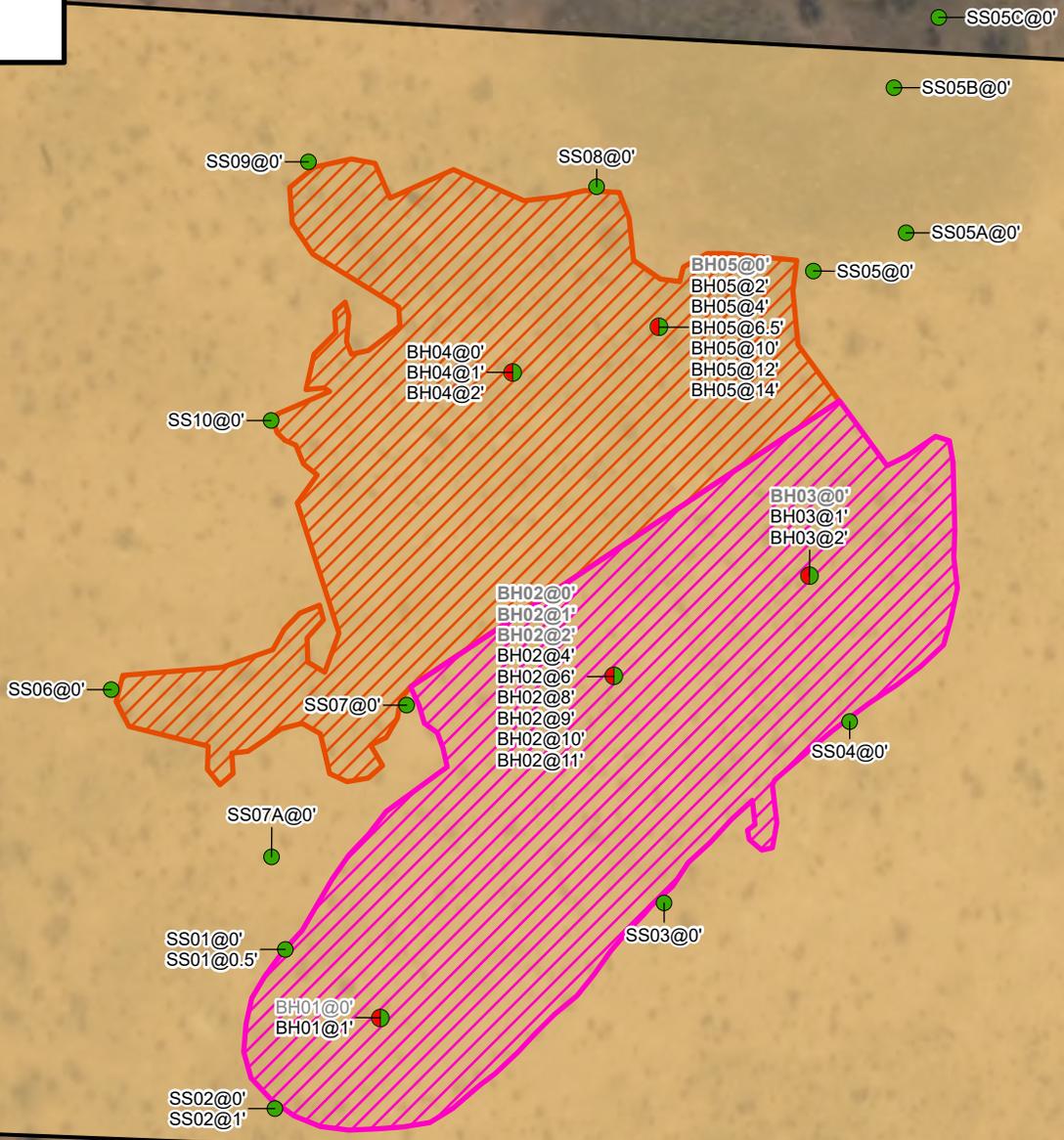
FIGURES

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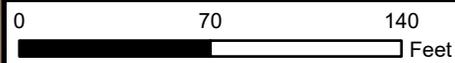


### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Pad Boundary
- Charles Ling 223 Release Extent
- Charles Ling 224 Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable Closure Criteria.  
 Grey text represents samples that have been excavated.



Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

Matador Production Company  
 Charles Ling 224 Well Pad, Charles Ling 223H Well Pad  
 Incident Numbers:  
 nAPP2501442555, nAPP2505848368  
 Unit A, Section 02, T 24S, R 33E  
 Eddy County, New Mexico

# FIGURE 2







TABLES

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**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
SS01	3/5/2025	0	<0.0250	<0.0500	<20.0	37.8	<50.0	37.8	37.8	321
SS01	3/5/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
SS02	3/5/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	253
SS02	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.8
SS03	3/5/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
SS04	3/6/2025	0	<0.0250	<0.0500	<20.0	43.8	<50.0	<25.0	43.8	217
SS05	4/16/2025	0	<0.0250	<0.0500	<20.0	241	88.8	241	330	506
SS05A	4/16/2025	0	<0.0250	<0.0500	<20.0	462	99.3	462	561.3	449
SS05B	4/16/2025	0	<0.0250	<0.0500	<20.0	36.7	<50.0	36.7	36.7	130
SS05C	4/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	180
SS06	3/6/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	474
SS07	3/5/2025	0	<0.0250	<0.0500	<20.0	77.7	80.9	77.7	159	402
SS07A	5/15/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	196
SS08	3/6/2025	0	<0.0250	<0.0500	<20.0	48.6	<50.0	<25.0	48.6	388
SS09	3/6/2025	0	<0.0250	<0.0500	<20.0	40.9	<50.0	<25.0	40.9	108
SS10	3/6/2025	0	<0.0250	<0.0500	<20.0	49.2	<50.0	<25.0	49.2	292
BH01	3/5/2025	0	<0.0250	<0.0500	<20.0	150	200.0	150	350	1,860
BH01	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	3/5/2025	0	<0.0250	<0.0500	<20.0	3,300	4,240	3,300	7,540	28,200
BH02	3/5/2025	1	<0.0250	<0.0500	<20.0	<25.0	56.9	<25.0	56.9	10,400
BH02	3/12/2025	2	<0.0250	<0.0500	<20.0	418	731	418	1,149	10,800
BH02	3/12/2025	4	<0.0250	<0.0500	<20.0	43.1	68.6	43.1	111.7	6,600

**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 1 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
BH02	3/12/2025	6	<0.0250	<0.0500	<20.0	43.9	68.3	43.9	112.2	4,400
BH02	4/16/2025	8	<0.0250	<0.0500	<20.0	190	247	190	437	2,670
BH02	4/16/2025	9	<0.0250	<0.0500	<20.0	29.0	59.1	29.0	88.1	605
BH02	4/16/2025	10	<0.0250	<0.0500	<20.0	74.8	79.0	74.8	153.8	2,170
BH02	4/16/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	289
BH03	3/12/2025	0	<0.0250	<0.0500	<20.0	232	269	232	501	<b>20,700</b>
BH03	3/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	253
BH03	3/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	516
BH04	3/12/2025	0	<0.0250	0.0710	<20.0	455	1,570.0	455	2,025	3,370
BH04	3/12/2025	1	<0.0250	<0.0500	<20.0	32.1	71.8	32.1	103.9	501
BH04	3/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
BH05	3/12/2025	0	<0.0250	<0.0500	<20.0	22,900	1,730.0	22,900	24,630	2,370
BH05	3/12/2025	2	<0.0250	0.2019	<20.0	44.5	<50.0	44.5	44.5	343
BH05	3/12/2025	4	<0.0250	<0.0500	<20.0	537	<50.0	537	537	1,710
BH05	3/12/2025	6.5	<0.0250	<0.0500	<20.0	379	<50.0	379	379	321
BH05	4/16/2025	10	<0.0250	<0.0500	<20.0	169	<50.0	169	169	893
BH05	4/16/2025	12	<0.0250	<0.0500	<20.0	474	<50.0	474	474	501
BH05	4/16/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	86.9

**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**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	171
FS02	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
FS03	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS04	5/9/2025	0.5	<0.0250	<0.0500	<20.0	28.2	<50.0	28.2	28.2	744
FS05	5/9/2025	0.5	<0.0250	<0.0500	<20.0	38.8	55.1	38.8	93.9	177
FS06	5/9/2025	0.5	<0.0250	<0.0500	<20.0	61.5	68.8	61.5	130.3	210
FS07	5/9/2025	0.5	<0.0250	<0.0500	<20.0	53.9	58.3	53.9	112.2	121
FS08	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS09	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS10	5/9/2025	0.5	<0.0250	<0.0500	<20.0	39.4	<50.0	39.4	39.4	347
FS11	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	174
FS12	5/9/2025	0.5	<0.0250	<0.0500	<20.0	35.6	<50.0	35.6	35.6	315
FS13	5/9/2025	0.5	<0.0250	<0.0500	<20.0	27.9	<50.0	27.9	27.9	448
FS14	5/9/2025	0.5	<0.0250	<0.0500	<20.0	93.7	106	93.7	199.7	184
FS15	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106
FS16	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	484
FS17	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS18	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,060
FS19	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
FS20	5/8/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS21	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.0	<50.0	36.0	36.0	2,350
FS22	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,530



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS23	5/8/2025	0.5	<0.0250	<0.0500	<20.0	26.0	<50.0	26.0	26.0	2,340
FS24	5/8/2025	0.5	<0.0250	<0.0500	<20.0	37.2	<50.0	37.2	37.2	3,390
FS25	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
FS26	5/9/2025	0.5	<0.0250	<0.0500	<20.0	26.2	<50.0	26.2	26.2	9,700
FS27	5/9/2025	0.5	<0.0250	<0.0500	<20.0	47.3	55.5	47.3	102.8	2,480
FS28	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS29	5/9/2025	0.5	<0.0250	<0.0500	<20.0	28.8	<50.0	28.8	28.8	2,150
FS30	5/9/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	848
FS31	5/9/2025	0.5	<0.0250	<0.0500	<20.0	43.9	62.3	43.9	106.2	3,050
FS32	5/9/2025	0.5	<0.0250	<0.0500	<20.0	280	452	280	732	3,020
FS33	5/9/2025	0.5	<0.0250	<0.0500	<20.0	481	990	481	1,471	1,080
FS34	5/9/2025	0.5	<0.0250	<0.0500	<20.0	454	761	454	1,215	2,500
FS35	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.9	79.7	36.9	116.6	3,870
FS36	5/9/2025	0.5	<0.0250	<0.0500	<20.0	188	215.0	188	403	5,370
FS37	5/14/2025	0.5	<0.0250	<0.0500	<20.0	475	859.0	475	1,334	5,320
FS38	5/9/2025	0.5	<0.0250	<0.0500	<20.0	44.6	85.2	44.6	129.8	50.5
FS39	5/9/2025	0.5	<0.0250	<0.0500	<20.0	32.1	69.1	32.1	101.2	117
FS40	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116
FS41	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	182
FS42	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	320
FS43	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	736
FS44	5/12/2025	0.5	<0.0250	<0.0500	<20.0	29.7	<50.0	29.7	29.7	319



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS45	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	212
FS46	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
FS47	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
FS48	5/9/2025	0.5	<0.0250	<0.0500	<20.0	105	186	105	291	3,060
FS49	5/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,620
FS50	5/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,190
FS51	5/13/2025	3	<0.0250	<0.0500	<20.0	41.2	<50.0	41.2	41.2	3,010
FS52	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
FS53	5/12/2025	0.5	<0.0250	<0.0500	<20.0	68.0	<50.0	68.0	<50.0	396
FS54	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
FS55	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,110
FS56	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	863
FS57	5/9/2025	0.5	<0.0250	<0.0500	<20.0	108	135	108	243	1,980
FS58	5/13/2025	3	<0.0250	<0.0500	<20.0	30.2	<50.0	30.2	30.2	3,620
FS59	5/14/2025	0.5	<0.0250	<0.0500	<20.0	146	101	146	247	1,820
FS60	5/15/2025	0.5	<0.0250	<0.0500	<20.0	290	134	290	424	5,280
FS61	5/14/2025	3	<0.0250	<0.0500	<20.0	35.2	<50.0	35.2	35.2	5,730
FS62	5/13/2025	3	<0.0250	<0.0500	<20.0	61.9	64.3	61.9	126.2	515
FS63	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,330
FS64	5/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,030
FS65	5/13/2025	3	<0.0250	<0.0500	<20.0	42.0	<50.0	42.0	42.0	1,410
FS66	5/13/2025	3	<0.0250	<0.0500	<20.0	39.2	50.5	39.2	89.7	543



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS67	5/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
FS68	5/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,390
FS69	5/13/2025	3	<0.0250	<0.0500	<20.0	25.5	<50.0	25.5	25.5	1,220
FS70	5/14/2025	1	<0.0250	<0.0500	<20.0	31.5	<50.0	31.5	31.5	1,000
FS71	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	462
FS72	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	192
FS73	5/12/2025	0.5	<0.0250	<0.0500	<20.0	89.1	84.6	89.1	173.7	486
FS74	5/14/2025	0.5	<0.0250	<0.0500	<20.0	218	249	218	467	641
FS75	5/12/2025	0.5	<0.0250	<0.0500	<20.0	67.6	115	67.6	182.6	3,580
FS76	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.9	<50.0	36.9	36.9	3,670
FS77	5/9/2025	0.5	<0.0250	<0.0500	<20.0	523	540	523	1,063	2,670
FS78	5/9/2025	0.5	<0.0250	<0.0500	<20.0	147	204	147	351	1,830
FS79	5/9/2025	0.5	<0.0250	<0.0500	<20.0	230	449	230	679	2,710
FS80	5/9/2025	0.5	<0.0250	<0.0500	<20.0	67.9	142	67.9	209.9	763
FS81	5/9/2025	0.5	<0.0250	<0.0500	<20.0	36.5	52.3	36.5	88.8	1,670
FS82	5/9/2025	0.5	<0.0250	<0.0500	<20.0	289	159	289	448	885
FS83	5/9/2025	0.5	<0.0250	<0.0500	<20.0	77.3	126	77.3	203.3	1,170
FS84	5/9/2025	0.5	<0.0250	<0.0500	<20.0	79.1	90.5	79.1	169.6	2,020
FS85	5/14/2025	0.5	<0.0250	<0.0500	<20.0	426	304	426	730	5,200
FS86	5/14/2025	0.5	<0.0250	<0.0500	<20.0	238	106	238	344	3,170
FS87	5/14/2025	0.5	<0.0250	<0.0500	<20.0	290	147	290	437	4,280
FS88	5/14/2025	0.5	<0.0250	<0.0500	<20.0	144	96.3	144	240.3	2,730



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS89	5/15/2025	0.5	<0.0250	<0.0500	<20.0	240	144	240	384	1,970
FS90	5/14/2025	0.5	<0.0250	<0.0500	<20.0	44.8	<50.0	44.8	44.8	3,630
FS91	5/14/2025	0.5	<0.0250	<0.0500	<20.0	86.5	53.5	86.5	140	4,240
FS92	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS93	5/15/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,270
FS94	5/15/2025	0.5	<0.0250	<0.0500	<20.0	325	113	325	438	5,130
FS95	5/14/2025	0.5	<0.0250	<0.0500	<20.0	167	201	167	368	3,920
FS96	5/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,360
FS97	5/9/2025	0.5	<0.0250	<0.0500	<20.0	30.8	<50.0	30.8	30.8	4,290
FS98	5/14/2025	0.5	<0.0250	<0.0500	<20.0	105	66.7	105	171.7	1,400
FS99	5/13/2025	0.5	<0.0250	<0.0500	<20.0	25.4	<50.0	25.4	25.4	367
FS100	5/13/2025	0.5	<0.0250	<0.0500	<20.0	37.6	<50.0	37.6	37.6	1,930
FS101	5/13/2025	0.5	<0.0250	<0.0500	<20.0	49.1	53.0	49.1	102	609
FS102	5/13/2025	0.5	<0.0250	<0.0500	<20.0	47.9	<50.0	47.9	47.9	780
FS103	5/13/2025	0.5	<0.0250	<0.0500	<20.0	64.1	72.8	64.1	136.9	861
FS104	5/14/2025	0.5	<0.0250	<0.0500	<20.0	184	141	184	325	5,130
FS105	5/15/2025	0.5	<0.0250	<0.0500	<20.0	123	115	123	238	699
FS106	5/15/2025	0.5	<0.0250	<0.0500	<20.0	35.2	52.6	35.2	87.8	6,000
FS107	5/14/2025	0.5	<0.0250	<0.0500	<20.0	92.8	<50.0	92.8	92.8	3,630
FS108	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
FS109	5/13/2025	0.5	<0.0250	<0.0500	<20.0	137	97.7	137	235	2,460
FS110	5/13/2025	0.5	<0.0250	<0.0500	<20.0	106	96.3	106	202	741



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS111	5/12/2025	0.5	<0.0250	<0.0500	<20.0	863	<50.0	863	863	1,840
FS112	5/13/2025	0.5	<0.0250	<0.0500	<20.0	158	<50.0	158	158	1,260
FS113	5/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	759
FS114	5/14/2025	0.5	<0.0250	<0.0500	<20.0	136	93.9	136	230	1,740
FS115	5/13/2025	3	<0.0250	<0.0500	<20.0	66.2	68.1	66.2	134.3	1,580
FS116	5/14/2025	0.5	<0.0250	<0.0500	<20.0	96.3	51.5	96.3	147.8	5,950
FS117	5/14/2025	0.5	<0.0250	<0.0500	<20.0	131	97.3	131	228	3,480
FS118	5/14/2025	1	<0.0250	<0.0500	<20.0	40.0	<50.0	40.0	40.0	1,070
FS119	5/14/2025	1	<0.0250	<0.0500	<20.0	37.0	<50.0	37.0	37.0	2,970
FS120	5/14/2025	0.5	<0.0250	<0.0500	<20.0	338	389	338	727	2,780
FS121	5/12/2025	0.5	<0.0250	<0.0500	<20.0	34.6	<50.0	34.6	34.6	1,170
FS122	5/12/2025	0.5	<0.0250	<0.0500	<20.0	119	134	119	253	3,520
FS123	5/14/2025	1	<0.0250	<0.0500	<20.0	237	186	237	423	1,120
FS124	5/12/2025	1	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	37.9	1,220
FS125	5/12/2025	0.5	<0.0250	<0.0500	<20.0	174	167	174	341	1,040
FS126	5/14/2025	1	<0.0250	<0.0500	<20.0	84.1	83.5	84.1	167.6	921
FS127	5/12/2025	0.5	<0.0250	<0.0500	<20.0	284	210	284	494	2,120
FS128	5/14/2025	0.5	<0.0250	<0.0500	<20.0	109	101	109	210	2,730
FS129	5/14/2025	0.5	<0.0250	<0.0500	<20.0	988	1,820	988	2,808	614
FS129	6/2/2025	1	<0.0250	<0.0500	<20.0	725	1,380	725	2,105	2,460
FS130	6/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,350
FS131	5/14/2025	0.5	<0.0250	<0.0500	<20.0	486	728	486	1,214	4,200



**TABLE 2 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS132	5/14/2025	0.5	<0.0250	<0.0500	<20.0	499	376	499	875	2,590
FS133	5/14/2025	0.5	<0.0250	<0.0500	<20.0	27.6	<50.0	27.6	27.6	3,790
FS134	5/12/2025	0.5	<0.0250	<0.0500	<20.0	57.0	<50.0	57.0	57.0	3,340
FS134	5/14/2025	0.5	<0.0250	<0.0500	<20.0	279	99.6	279	378.6	5,430
FS135	5/14/2025	0.5	<0.0250	<0.0500	<20.0	220	80.6	220	300.6	3,550
FS136	5/12/2025	2	<0.0250	<0.0500	<20.0	464	<50.0	464	464	356
FS137	5/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.6
FS138	5/13/2025	2	<0.0250	<0.0500	<20.0	37.3	<50.0	37.3	37.3	29.1
FS139	5/13/2025	2	<0.0250	<0.0500	<20.0	95.7	<50.0	95.7	95.7	146
FS140	5/12/2025	2	<0.0250	<0.0500	<20.0	575	107	575	682	751
FS141	5/12/2025	2	<0.0250	<0.0500	<20.0	667	<50.0	667	667	1,270
FS142	5/12/2025	0.5	<0.0250	<0.0500	<20.0	134	84.1	134	218.1	1,420
FS143	5/12/2025	0.5	<0.0250	<0.0500	<20.0	410	208	410	618	1,070
FS144	5/13/2025	2	<0.0250	<0.0500	<20.0	185	<50.0	185	185	112
FS145	5/12/2025	2	<0.0250	<0.0500	<20.0	246	<50.0	246	246	232
FS146	6/2/2025	2	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	37.9	98.0
FS147	5/12/2025	0.5	<0.0250	<0.0500	<20.0	647	877	647	1,524	2,170
FS148	6/2/2025	1	<0.0250	<0.0500	<20.0	43.8	67.0	43.8	111	887
FS149	5/12/2025	2	<0.0250	<0.0500	<20.0	269	<50.0	269	269	228
FS150	5/12/2025	0.5	<0.0250	<0.0500	<20.0	275	141	275	416	1,840
FS151	5/12/2025	0.5	<0.0250	<0.0500	<20.0	60.0	<50.0	60.0	60.0	1,110

**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**  
 Charles Ling 224 Well Pad & Charles Ling 223 Well Pad  
 Matador Production Company  
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Sidewall Soil Samples</b>										
SW01	5/15/2025	0-1	<0.0250	<0.0500	<20.0	594	999	594	1,593	4,290
SW02	5/14/2025	0-2	<0.0250	<0.0500	<20.0	65.7	<50.0	65.7	65.7	148

**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



## APPENDIX A

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DTI AUG 21 2023 PM 2:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4753-POD1		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 15'	SECONDS 14.6"	N	* ACCURACY REQUIRED ONE TENTH OF A SECOND	
		LONGITUDE 103	32'	41.3"	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1833	NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources			
	DRILLING STARTED 7-27-23	DRILLING ENDED 7-27-23	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) Dry			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry	DATE STATIC MEASURED		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	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	45	6	2" PVC SCH 40	Thread	2"	SCH 40	-
	45	55	6	2" PVC SCH 40	Thread	2"	SCH 40	.02

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				None pulled and plugged		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04753	POD NO. 1	TRN NO. 748814
LOCATION 23S. 33E. 35. 443	WELL TAG ID NO.	PAGE 1 OF 2





## APPENDIX B

# Lithologic Soil Sampling Logs

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					Sample Name: BH01		Date: 03/12/2025	
					Site Name: Charles Ling 224 & 223H Well Pad			
					Incident Number: nAPP2501442555 & nAPP2505848368			
					Job Number: 03A2270067 & 03A2270076			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: H.Gonzalez		Method: Hand Auger	
Coordinates: 32.252568, -103.537910					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH® Chloride Test Strips and PetroFLAG® Soil Analyzer for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH01	0	0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	8	N	BH01	1	1	CCHE	
Total Depth @ 1-foot bgs.								

					Sample Name: BH02		Date: 04/16/2025	
					Site Name: Charles Ling 224 & 223H Well Pad			
					Incident Number: nAPP2501442555 & nAPP2505848368			
					Job Number: 03A2270067 & 03A2270076			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: H.Gonzalez		Method: 7822DT	
Coordinates: 32.252929, -10.537646					Hole Diameter: 6"		Total Depth: 11'	
Comments: Field screening conducted with HACH® Chloride Test Strips and a PetroFLAG® Soil Analyzer for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH02	0	0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D		0.0	N		1	1		
D		0.0	N	BH02	2	2		
D		0.0	N		3	3		
D		0.0	N	BH02	4	4		
D		0.0	N		5	5		
D	1,579	0.0	N	BH02	6	6	CCHE	Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	>3,590		N	BH02	7	7		
D	2,654		N	BH02	8	8		
D	638		N	BH02	9	9		
D	2,296		N	BH02	10	10		
D	364	49	N	BH02	11	11		

					Sample Name: BH03		Date: 03/12/2025	
					Site Name: Charles Ling 224 & 223H Well Pad			
					Incident Number: nAPP2501442555 & nAPP2505848368			
					Job Number: 03A2270067 & 03A2270076			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: H.Gonzalez		Method: Backhoe	
Coordinates: 32.253041, -103.537415					Hole Diameter: 2'		Total Depth: 6'	
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				BH03	0	0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	162	0.0		BH03	1	1	CCHE	Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	403	0.0		BH03	2	2		
D		0.0			3	3		
D		0.0			4	4		
D		0.0			5	5		
D	ND	0.0			6	6		
Total depth @ 6 feet bgs.								

					Sample Name: BH04		Date: 03/12/2025					
					Site Name: Charles Ling 224 & 223H Well Pad				Incident Number: nAPP2501442555 & nAPP2505848368			
					Job Number: 03A2270067 & 03A2270076				Logged By: H.Gonzalez		Method: Backhoe	
					Coordinates: 32.253238, -103.537784				Hole Diameter: 2'		Total Depth: 6'	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>												
Comments: Field screening conducted with HACH® Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
M			Y	BH04		0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform				
D	834	0.0	N	BH04		1	CCHE	Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform				
D	198	0.0	N	BH04		2						
D		0.0	N			3						
D		0.4	N			4						
D		0.0	N			5						
D	ND	0.0	N			6						
Total depth @ 6 feet bgs.												

					Sample Name: BH05		Date: 04/16/2025	
					Site Name: Charles Ling 224 & 223H Well Pad			
					Incident Number: nAPP2501442555 & nAPP2505848368			
					Job Number: 03A2270067 & 03A2270076			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: H.Gonzalez		Method: 7822DT	
Coordinates: 32.253,290, -103.537609					Hole Diameter: 6"		Total Depth: 14'	
Comments: Field screening conducted with HACH® Chloride Test Strips and a PetroFLAG® Soil Analyzer for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH05	0	0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
M		100.9	Y			1		
M		12.6	Y	BH05	2	2		
M		15.7	Y			3	CL	Fat clay with trace amounts of gravel and sand, dark black, stained, hydrocarbon odor, noncohesive, low plasticity.
M		16.8	Y	BH05	4	4		
M		9	Y			5		
M		17.7	Y			6		
M		7.9	Y	BH05	6.5	7	CCHE	Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
			D			8	CL	Fat clay with trace amounts of gravel and sand, dark black, stained, hydrocarbon odor, noncohesive, low plasticity.
			D			9		
D	997		D	BH05	10	10	CCHE	Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	515		D	BH05	12	12		
D	ND		D	BH05	14	14		



## APPENDIX C

### Photographic Log

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Photographic Log

Matador Production Company

Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 1 Date: 1/14/2025 Description: Charles Ling #224 Well Pad (Spill Area) View: Southeast

Photograph 2 Date: 02/27/2025 Description: Charles Ling #223H Well Pad (Spill Area) View: Northwest



Photograph 3 Date: 02/27/2025 Description: Charles Ling #223H Well Pad (Spill Area) View: West

Photograph 4 Date: 03/05/2025 Description: Charles Ling #223H Well Pad Delineation View: Northeast

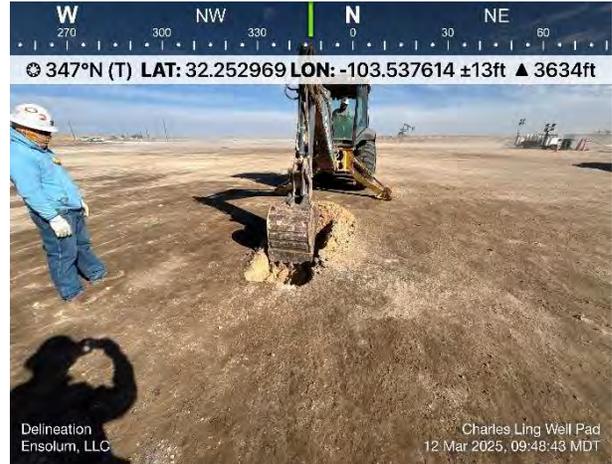


**Photographic Log**

Matador Production Company

Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 5 Date: 03/05/2025  
 Description: Charles Ling #223H Well Pad Delineation  
 View: Northeast

Photograph 6 Date: 03/12/2025  
 Description: Charles Ling #223H Well Pad Delineation  
 View: North



Photograph 7 Date: 03/12/2025  
 Description: Charles Ling #223H Well Pad Delineation  
 View: Northwest

Photograph 8 Date: 04/04/2025  
 Description: Charles Ling #224 Well Pad Delineation  
 View: Northeast



Photographic Log

Matador Production Company

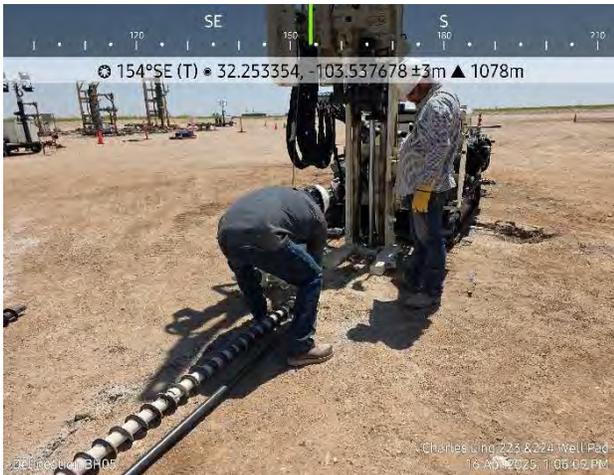
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 9 Date: 04/16/2025 Description: Charles Ling #224 Well Pad Delineation View: Northwest

Photograph 10 Date: 04/16/2025 Description: Charles Ling #224 Well Pad Delineation View: North



Photograph 11 Date: 04/16/2025 Description: Charles Ling #224 Well Pad Delineation View: Southeast

Photograph 12 Date: 04/16/2025 Description: Charles Ling #224 Well Pad Delineation View: Southeast



**Photographic Log**

Matador Production Company

Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 13 Date: 05/08/2025 Description: Excavation Activities 224 & 223H Well Pad View: North

Photograph 14 Date: 05/08/2025 Description: Excavation Activities 224 & 223H Well Pad View: Northwest



Photograph 15 Date: 05/09/2025 Description: Excavation Activities 224 & 223H Well Pad View: Northwest

Photograph 16 Date: 05/09/2025 Description: Excavation Activities 224 & 223H Well Pad View: Southeast

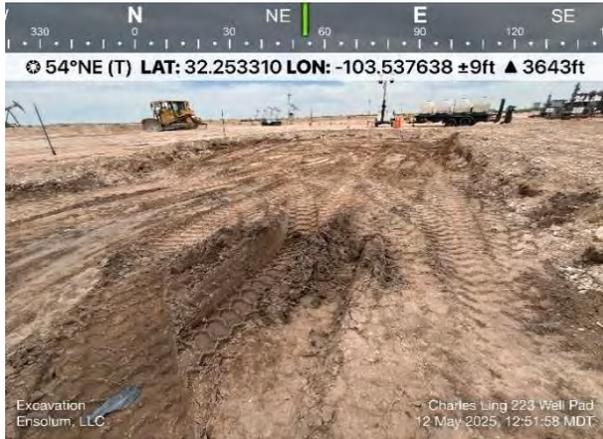


**Photographic Log**

Matador Production Company

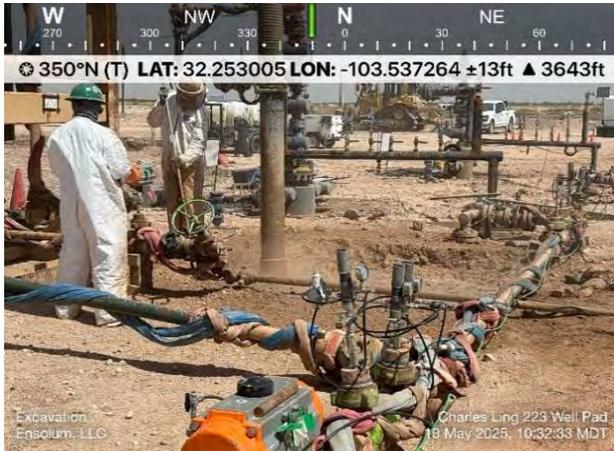
Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 17 Date: 05/12/2025  
Description: Excavation Activities 224 & 223H Well Pad  
View: Northeast

Photograph 18 Date: 05/13/2025  
Description: Excavation Activities 224 & 223H Well Pad  
View: West



Photograph 19 Date: 05/13/2025  
Description: Hydrovac Activities 223 Well Pad  
View: Southeast

Photograph 20 Date: 06/14/2025  
Description: Excavation Activities 224 & 223H Well Pad  
View: North

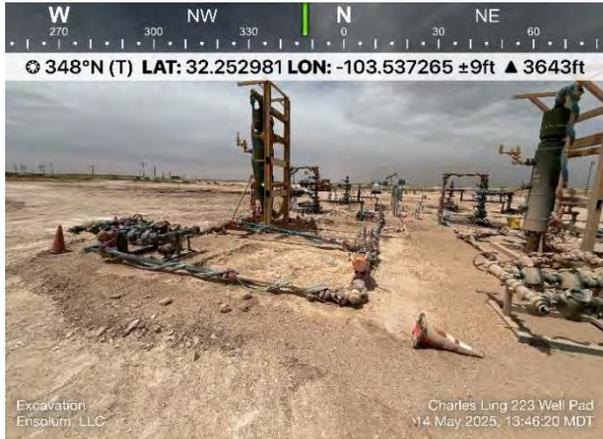


Photographic Log

Matador Production Company

Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 21 Date: 05/14/2025 Description: Confirmation Sampling 223H Well Pad View: North

Photograph 22 Date: 05/14/2025 Description: Confirmation Sampling 223H Well Pad View: Northwest



Photograph 23 Date: 05/15/2025 Description: Confirmation Sampling 224 Well Pad View: Northeast

Photograph 24 Date: 05/15/2025 Description: Confirmation Sampling 224 Well Pad View: South



Photographic Log

Matador Production Company

Charles Ling 224 Well Pad & Charles Ling 223H Well Pad

Incident Numbers: nAPP2501442555 & nAPP2505848368



Photograph 25 Date: 06/02/2025 Description: Backfill Activities 224 & 223H Well Pad View: North

Photograph 26 Date: 06/02/2025 Description: Backfill Activities 224 & 223H Well Pad View: East



Photograph 27 Date: 06/02/2025 Description: Backfill Activities 224 & 223H Well Pad View: East

Photograph 28 Date: 06/02/2025 Description: Backfill Activities 224 & 223H Well Pad View: Northeast



## 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: Charles Ling Well Pad #223

Work Order: E503041

Job Number: 23003-0002

Received: 3/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/12/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 3/12/25



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

Project Name: Charles Ling Well Pad #223  
Workorder: E503041  
Date Received: 3/7/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/7/2025 7:45:00AM, under the Project Name: Charles Ling Well Pad #223.

The analytical test results summarized in this report with the Project Name: Charles Ling Well Pad #223 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/12/25 10:00
---	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E503041-01A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
SS01-0.5'	E503041-02A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
SS03-0'	E503041-03A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
---	--	--

**SS01-0'**

**E503041-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/07/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/07/25	
Toluene	ND	0.0250	1	03/07/25	03/07/25	
o-Xylene	ND	0.0250	1	03/07/25	03/07/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/07/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		80.4 %	70-130	03/07/25	03/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	03/07/25	03/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KH		Batch: 2511008
Diesel Range Organics (C10-C28)	37.8	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: AK		Batch: 2510106
Chloride	321	20.0	1	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
---	--	--

**SS01-0.5'**

**E503041-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/07/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/07/25	
Toluene	ND	0.0250	1	03/07/25	03/07/25	
o-Xylene	ND	0.0250	1	03/07/25	03/07/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/07/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		79.0 %	70-130	03/07/25	03/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	03/07/25	03/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2511008
Diesel Range Organics (C10-C28)	ND	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	159	20.0	1	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
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**SS03-0'**

**E503041-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		79.8 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2511008
Diesel Range Organics (C10-C28)	40.2	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	290	20.0	1	03/07/25	03/07/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2510107-BLK1)**

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			

**LCS (2510107-BS1)**

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.92	0.0250	5.00		98.3	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.42		8.00		80.3	70-130			

**LCS Dup (2510107-BSD1)**

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	5.02	0.0250	5.00		100	70-130	3.37	20	
Ethylbenzene	4.79	0.0250	5.00		95.7	70-130	3.39	20	
Toluene	4.92	0.0250	5.00		98.4	70-130	3.42	20	
o-Xylene	4.77	0.0250	5.00		95.4	70-130	2.99	20	
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130	3.20	20	
Total Xylenes	14.5	0.0250	15.0		96.6	70-130	3.13	20	
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2510107-BLK1)**

Prepared: 03/06/25 Analyzed: 03/06/25

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

**LCS (2510107-BS2)**

Prepared: 03/06/25 Analyzed: 03/06/25

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

**LCS Dup (2510107-BSD2)**

Prepared: 03/06/25 Analyzed: 03/07/25

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.3	70-130	8.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
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#### 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 (2511008-BLK1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.1		50.0		102	61-141			

**LCS (2511008-BS1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	230	25.0	250		92.1	66-144			
Surrogate: n-Nonane	50.4		50.0		101	61-141			

**Matrix Spike (2511008-MS1)**

Source: E503041-03

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	266	25.0	250	40.2	90.3	56-156			
Surrogate: n-Nonane	51.5		50.0		103	61-141			

**Matrix Spike Dup (2511008-MSD1)**

Source: E503041-03

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	275	25.0	250	40.2	94.1	56-156	3.50	20	
Surrogate: n-Nonane	51.3		50.0		103	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 10:00:54AM
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#### Anions by EPA 300.0/9056A

Analyst: AK

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 (2510106-BLK1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	ND	20.0							
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**LCS (2510106-BS1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	254	20.0	250		102	90-110			
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**Matrix Spike (2510106-MS1)**

Source: E503042-04

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	35200	400	250	28200	NR	80-120			M4
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**Matrix Spike Dup (2510106-MSD1)**

Source: E503042-04

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	30000	400	250	28200	715	80-120	15.9	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/12/25 10:00
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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





Envirotech Analytical Laboratory

Printed: 3/7/2025 8:16:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 03/07/25 07:45 Work Order ID: E503041
Phone: (972) 371-5200 Date Logged In: 03/06/25 15:10 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 03/13/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty rectangular box for client instructions.

Comments/Resolution

Large empty rectangular box for comments and resolution.

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling Well Pad #223

Work Order: E503042

Job Number: 23003-0002

Received: 3/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/12/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 3/12/25

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

Project Name: Charles Ling Well Pad #223  
Workorder: E503042  
Date Received: 3/7/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/7/2025 7:45:00AM, under the Project Name: Charles Ling Well Pad #223.

The analytical test results summarized in this report with the Project Name: Charles Ling Well Pad #223 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/12/25 12:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-0'	E503042-01A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
SS02-1'	E503042-02A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
SS07-0'	E503042-03A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
BH02-0'	E503042-04A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
BH02-1'	E503042-05A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
BH01-0'	E503042-06A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.
BH01-1'	E503042-07A	Soil	03/05/25	03/07/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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**SS02-0'**

**E503042-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		79.6 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	253	20.0	1	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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SS02-1'

E503042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		79.2 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	49.8	20.0	1	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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SS07-0'

E503042-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		79.0 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	77.7	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	80.9	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	402	20.0	1	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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**BH02-0'**

**E503042-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		77.8 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	3300	50.0	2	03/07/25	03/07/25	T17
Oil Range Organics (C28-C36)	4240	100	2	03/07/25	03/07/25	T17
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	28200	400	20	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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**BH02-1'**  
**E503042-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		77.4 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	<b>56.9</b>	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: AK		Batch: 2510106
Chloride	<b>10400</b>	200	10	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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**BH01-0'**

**E503042-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		77.6 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	150	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	200	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2510106
Chloride	1860	40.0	2	03/07/25	03/07/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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**BH01-1'**  
**E503042-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Benzene	ND	0.0250	1	03/07/25	03/08/25	
Ethylbenzene	ND	0.0250	1	03/07/25	03/08/25	
Toluene	ND	0.0250	1	03/07/25	03/08/25	
o-Xylene	ND	0.0250	1	03/07/25	03/08/25	
p,m-Xylene	ND	0.0500	1	03/07/25	03/08/25	
Total Xylenes	ND	0.0250	1	03/07/25	03/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		77.5 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2510107
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/07/25	03/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	03/07/25	03/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: AF		Batch: 2510105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/25	03/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/25	03/07/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	03/07/25	03/07/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: AK		Batch: 2510106
Chloride	ND	20.0	1	03/07/25	03/07/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2510107-BLK1)

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			

#### LCS (2510107-BS1)

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.92	0.0250	5.00		98.3	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.42		8.00		80.3	70-130			

#### LCS Dup (2510107-BSD1)

Prepared: 03/06/25 Analyzed: 03/06/25

Benzene	5.02	0.0250	5.00		100	70-130	3.37	20	
Ethylbenzene	4.79	0.0250	5.00		95.7	70-130	3.39	20	
Toluene	4.92	0.0250	5.00		98.4	70-130	3.42	20	
o-Xylene	4.77	0.0250	5.00		95.4	70-130	2.99	20	
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130	3.20	20	
Total Xylenes	14.5	0.0250	15.0		96.6	70-130	3.13	20	
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2510107-BLK1)**

Prepared: 03/06/25 Analyzed: 03/06/25

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

**LCS (2510107-BS2)**

Prepared: 03/06/25 Analyzed: 03/06/25

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

**LCS Dup (2510107-BSD2)**

Prepared: 03/06/25 Analyzed: 03/07/25

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.3	70-130	8.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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#### 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 (2510105-BLK1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	61-141			

**LCS (2510105-BS1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Diesel Range Organics (C10-C28)	250	25.0	250		99.9	66-144			
Surrogate: n-Nonane	53.1		50.0		106	61-141			

**Matrix Spike (2510105-MS1)**

Source: E503043-02

Prepared: 03/07/25 Analyzed: 03/07/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	55.8		50.0		112	61-141			

**Matrix Spike Dup (2510105-MSD1)**

Source: E503043-02

Prepared: 03/07/25 Analyzed: 03/07/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156	2.30	20	
Surrogate: n-Nonane	54.9		50.0		110	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/12/2025 12:08:27PM
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#### Anions by EPA 300.0/9056A

Analyst: AK

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 (2510106-BLK1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	ND	20.0							
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**LCS (2510106-BS1)**

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	254	20.0	250		102	90-110			
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**Matrix Spike (2510106-MS1)**

Source: E503042-04

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	35200	400	250	28200	NR	80-120			M4
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**Matrix Spike Dup (2510106-MSD1)**

Source: E503042-04

Prepared: 03/07/25 Analyzed: 03/07/25

Chloride	30000	400	250	28200	715	80-120	15.9	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad #223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/12/25 12:08
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- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- 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

Released to Imaging: 9/17/2025 10:44:00 AM

Page 17 of 18

Page 106 of 170

Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: <u>Matador</u>				Company: <u>Ensolum LLC</u>				Lab WO# <u>E503042</u>		Job Number <u>230030002</u>		1D	2D	3D	Std	NM	CO	UT	TX	
Project: <u>Charles Ling Well Pad #223</u>				Address: <u>3122 National Parks Hwy</u>												X				
Project Manager: <u>Ashley Giovengo</u>				City, State, Zip: <u>Carlsbad NM, 88220</u>																
Address: <u>3122 National Parks Hwy</u>				Phone: <u>575-988-0055</u>																
City, State, Zip: <u>Carlsbad NM, 88220</u>				Email: <u>agiovengo@ensolum.com</u>																
Phone: <u>575-988-0055</u>				Miscellaneous:																
Email: <u>agiovengo@ensolum.com</u>																				
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 - NIM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	PWSID #	
9:56	3/5/2025	S	1	SS02 - 0'		1						X						Y	or	N
11:00	3/5/2025	S	1	SS02 - 1'		2						X								
13:31	3/5/2025	S	1	SS07 - 0'		3						X								
11:50	3/5/2025	S	1	BH02 - 0'		4						X								
12:00	3/5/2025	S	1	BH02 - 1'		5						X								
11:07	3/5/2025	S	1	BH01 - 0'		6						X								
11:27	3/5/2025	S	1	BH01 - 1'		7						X								
Additional Instructions: Please CC: <a href="mailto:agiovengo@ensolum.com">agiovengo@ensolum.com</a> , <a href="mailto:chamilton@ensolum.com">chamilton@ensolum.com</a> , <a href="mailto:iestrella@ensolum.com">iestrella@ensolum.com</a> , <a href="mailto:bsimmons@ensolum.com">bsimmons@ensolum.com</a> , <a href="mailto:jgonzalez@ensolum.com">jgonzalez@ensolum.com</a>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: <u>Higinio Gonzalez</u>																				
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>3-6-25</u>	Time <u>07:11</u>	Received by: (Signature) <u>Marissa Gonzalez</u>		Date <u>3-6-25</u>	Time <u>0711</u>	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) <u>Marissa Gonzalez</u>		Date <u>3-6-25</u>	Time <u>1400</u>	Received by: (Signature) <u>[Signature]</u>		Date <u>3-6-25</u>	Time <u>1645</u>													
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>3-6-25</u>	Time <u>2200</u>	Received by: (Signature) <u>Cathy Ma</u>		Date <u>3/7/25</u>	Time <u>745</u>													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



# envirotech

### Envirotech Analytical Laboratory

Printed: 3/7/2025 8:17:50AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 03/07/25 07:45	Work Order ID: E503042
Phone: (972) 371-5200	Date Logged In: 03/06/25 15:28	Logged In By: Noe Soto
Email: agiovengo@ensolum.com	Due Date: 03/13/25 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

Carrier: Courier

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

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

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

#### Sample Container

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

#### Field Label

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

#### Sample Preservation

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

#### Multiphase Sample Matrix

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

#### Subcontract Laboratory

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

#### Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling #223 Well Pad

Work Order: E503049

Job Number: 23003-0002

Received: 3/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/13/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 3/13/25

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

Project Name: Charles Ling #223 Well Pad  
Workorder: E503049  
Date Received: 3/10/2025 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/10/2025 8:15:00AM, under the Project Name: Charles Ling #223 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling #223 Well Pad 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/13/25 08:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04-0'	E503049-01A	Soil	03/06/25	03/10/25	Glass Jar, 2 oz.
SS06-0'	E503049-02A	Soil	03/06/25	03/10/25	Glass Jar, 2 oz.
SS08-0'	E503049-03A	Soil	03/06/25	03/10/25	Glass Jar, 2 oz.
SS09-0'	E503049-04A	Soil	03/06/25	03/10/25	Glass Jar, 2 oz.
SS10-0'	E503049-05A	Soil	03/06/25	03/10/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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**SS04-0'**

**E503049-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Benzene	ND	0.0250	1	03/10/25	03/10/25	
Ethylbenzene	ND	0.0250	1	03/10/25	03/10/25	
Toluene	ND	0.0250	1	03/10/25	03/10/25	
o-Xylene	ND	0.0250	1	03/10/25	03/10/25	
p,m-Xylene	ND	0.0500	1	03/10/25	03/10/25	
Total Xylenes	ND	0.0250	1	03/10/25	03/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/25	03/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.1 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2511007
Diesel Range Organics (C10-C28)	43.8	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>						
		95.7 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511004
Chloride	217	20.0	1	03/10/25	03/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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SS06-0'

E503049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Benzene	ND	0.0250	1	03/10/25	03/10/25	
Ethylbenzene	ND	0.0250	1	03/10/25	03/10/25	
Toluene	ND	0.0250	1	03/10/25	03/10/25	
o-Xylene	ND	0.0250	1	03/10/25	03/10/25	
p,m-Xylene	ND	0.0500	1	03/10/25	03/10/25	
Total Xylenes	ND	0.0250	1	03/10/25	03/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/25	03/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2511007
Diesel Range Organics (C10-C28)	ND	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		97.0 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511004
Chloride	474	20.0	1	03/10/25	03/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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**SS08-0'**

**E503049-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Benzene	ND	0.0250	1	03/10/25	03/10/25	
Ethylbenzene	ND	0.0250	1	03/10/25	03/10/25	
Toluene	ND	0.0250	1	03/10/25	03/10/25	
o-Xylene	ND	0.0250	1	03/10/25	03/10/25	
p,m-Xylene	ND	0.0500	1	03/10/25	03/10/25	
Total Xylenes	ND	0.0250	1	03/10/25	03/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/25	03/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2511007
Diesel Range Organics (C10-C28)	48.6	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		98.7 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511004
Chloride	388	20.0	1	03/10/25	03/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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**SS09-0'**

**E503049-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Benzene	ND	0.0250	1	03/10/25	03/10/25	
Ethylbenzene	ND	0.0250	1	03/10/25	03/10/25	
Toluene	ND	0.0250	1	03/10/25	03/10/25	
o-Xylene	ND	0.0250	1	03/10/25	03/10/25	
p,m-Xylene	ND	0.0500	1	03/10/25	03/10/25	
Total Xylenes	ND	0.0250	1	03/10/25	03/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/25	03/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2511007
Diesel Range Organics (C10-C28)	40.9	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511004
Chloride	108	20.0	1	03/10/25	03/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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**SS10-0'**

**E503049-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Benzene	ND	0.0250	1	03/10/25	03/10/25	
Ethylbenzene	ND	0.0250	1	03/10/25	03/10/25	
Toluene	ND	0.0250	1	03/10/25	03/10/25	
o-Xylene	ND	0.0250	1	03/10/25	03/10/25	
p,m-Xylene	ND	0.0500	1	03/10/25	03/10/25	
Total Xylenes	ND	0.0250	1	03/10/25	03/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2511006
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/25	03/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	03/10/25	03/10/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2511007
Diesel Range Organics (C10-C28)	49.2	25.0	1	03/10/25	03/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/10/25	03/10/25	
<i>Surrogate: n-Nonane</i>		98.0 %	61-141	03/10/25	03/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511004
Chloride	292	20.0	1	03/10/25	03/10/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2511006-BLK1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		98.9	70-130			

**LCS (2511006-BS1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Benzene	5.33	0.0250	5.00		107	70-130			
Ethylbenzene	5.20	0.0250	5.00		104	70-130			
Toluene	5.29	0.0250	5.00		106	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

**Matrix Spike (2511006-MS1)**

Source: E503049-04

Prepared: 03/10/25 Analyzed: 03/10/25

Benzene	5.68	0.0250	5.00	ND	114	54-133			
Ethylbenzene	5.54	0.0250	5.00	ND	111	61-133			
Toluene	5.64	0.0250	5.00	ND	113	61-130			
o-Xylene	5.55	0.0250	5.00	ND	111	63-131			
p,m-Xylene	11.3	0.0500	10.0	ND	113	63-131			
Total Xylenes	16.8	0.0250	15.0	ND	112	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

**Matrix Spike Dup (2511006-MSD1)**

Source: E503049-04

Prepared: 03/10/25 Analyzed: 03/10/25

Benzene	5.56	0.0250	5.00	ND	111	54-133	2.11	20	
Ethylbenzene	5.42	0.0250	5.00	ND	108	61-133	2.25	20	
Toluene	5.51	0.0250	5.00	ND	110	61-130	2.22	20	
o-Xylene	5.42	0.0250	5.00	ND	108	63-131	2.29	20	
p,m-Xylene	11.0	0.0500	10.0	ND	110	63-131	2.21	20	
Total Xylenes	16.4	0.0250	15.0	ND	110	63-131	2.23	20	
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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#### 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 (2511006-BLK1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

**LCS (2511006-BS2)**

Prepared: 03/10/25 Analyzed: 03/10/25

Gasoline Range Organics (C6-C10)	39.4	20.0	50.0		78.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

**Matrix Spike (2511006-MS2)**

Source: E503049-04

Prepared: 03/10/25 Analyzed: 03/10/25

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			

**Matrix Spike Dup (2511006-MSD2)**

Source: E503049-04

Prepared: 03/10/25 Analyzed: 03/10/25

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130	0.612	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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#### 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 (2511007-BLK1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.1		50.0		96.1	61-141			

**LCS (2511007-BS1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	225	25.0	250		90.0	66-144			
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.2	61-141			

**Matrix Spike (2511007-MS1)**

Source: E503049-05

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	275	25.0	250	49.2	90.3	56-156			
Surrogate: <i>n</i> -Nonane	48.6		50.0		97.3	61-141			

**Matrix Spike Dup (2511007-MSD1)**

Source: E503049-05

Prepared: 03/10/25 Analyzed: 03/10/25

Diesel Range Organics (C10-C28)	278	25.0	250	49.2	91.4	56-156	0.977	20	
Surrogate: <i>n</i> -Nonane	49.5		50.0		99.1	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/13/2025 8:53:22AM
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#### Anions by EPA 300.0/9056A

Analyst: AK

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 (2511004-BLK1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Chloride ND 20.0

**LCS (2511004-BS1)**

Prepared: 03/10/25 Analyzed: 03/10/25

Chloride 255 20.0 250 102 90-110

**Matrix Spike (2511004-MS1)**

Source: E503050-07

Prepared: 03/10/25 Analyzed: 03/10/25

Chloride 274 20.0 250 ND 109 80-120

**Matrix Spike Dup (2511004-MSD1)**

Source: E503050-07

Prepared: 03/10/25 Analyzed: 03/10/25

Chloride 274 20.0 250 ND 110 80-120 0.0858 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling #223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/13/25 08:53
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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

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# <b>ES03049</b>				Job Number <b>250030002</b>				1D 2D 3D Std			
Project: Charles Ling #223 Well Pad				Address: 3122 National Parks Hwy												NM CO UT TX			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220												x			
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program			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				
Compliance															Y	or	N				
9:36	3/6/2025	Soil	1	SS04 - 0'		1						X									
10:44	3/6/2025	Soil	1	SS06 - 0'		2						X									
12:32	3/6/2025	Soil	1	SS08 - 0'		3						X									
14:31	3/6/2025	Soil	1	SS09 - 0'		4						X									
11:58	3/6/2025	Soil	1	SS10 - 0'		5						X									

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, [jhinkle@ensolum.com](mailto:jhinkle@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: Jenna Hinkle, *Higinio Gonzalez*

Relinquished by: (Signature) <i>Jenna Hinkle</i>	Date 3/7/2025	Time	Received by: (Signature) <i>Michelle Gonzales</i>	Date 3-7-25	Time 0930	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C <b>4</b>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 3-7-25	Time 1600	Received by: (Signature) <i>John J.</i>	Date 3.7.25	Time 1600	
Relinquished by: (Signature) <i>John J.</i>	Date 3.7.25	Time 2300	Received by: (Signature) <i>Paula Mae</i>	Date 3-10-25	Time 815	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 3/10/2025 8:43:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 03/10/25 08:15 Work Order ID: E503049
Phone: (972) 371-5200 Date Logged In: 03/07/25 15:14 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 03/14/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling Well Pad

Work Order: E503097

Job Number: 23003-0002

Received: 3/14/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/19/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 3/19/25



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

Project Name: Charles Ling Well Pad  
Workorder: E503097  
Date Received: 3/14/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: Charles Ling Well Pad.

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

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

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

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

Respectfully,

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/19/25 15:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02-2'	E503097-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH02-4'	E503097-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH02-6'	E503097-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03-0'	E503097-04A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03-1'	E503097-05A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03-2'	E503097-06A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04-0'	E503097-07A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04-1'	E503097-08A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04-2'	E503097-09A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH05-0'	E503097-10A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH05-2'	E503097-11A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH05-4'	E503097-12A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH05-6.5'	E503097-13A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH02-2'**  
**E503097-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2511072	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		79.1 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2511072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	418	25.0	1	03/14/25	03/18/25	
Oil Range Organics (C28-C36)	731	50.0	1	03/14/25	03/18/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	03/14/25	03/18/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2511071	
Chloride	10800	200	10	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH02-4'**  
**E503097-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		78.7 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	43.1	25.0	1	03/14/25	03/18/25	
Oil Range Organics (C28-C36)	68.6	50.0	1	03/14/25	03/18/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	03/14/25	03/18/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	6600	100	5	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH02-6'**  
**E503097-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		79.7 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	43.9	25.0	1	03/14/25	03/18/25	
Oil Range Organics (C28-C36)	68.3	50.0	1	03/14/25	03/18/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	03/14/25	03/18/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	4400	100	5	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH03-0'**

**E503097-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		78.8 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	232	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	269	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	20700	200	10	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH03-1'**  
**E503097-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		78.0 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	253	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH03-2'**  
**E503097-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		77.8 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	516	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH04-0'**  
**E503097-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	<b>0.0710</b>	0.0500	1	03/14/25	03/15/25	
Total Xylenes	<b>0.0710</b>	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		77.8 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	<b>455</b>	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	<b>1570</b>	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	<b>3370</b>	40.0	2	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH04-1'**  
**E503097-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		77.7 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.9 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	32.1	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	71.8	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	501	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH04-2'**  
**E503097-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		77.2 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	209	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH05-0'**  
**E503097-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		84.2 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	22900	125	5	03/14/25	03/18/25	
Oil Range Organics (C28-C36)	1730	250	5	03/14/25	03/18/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	03/14/25	03/18/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	2370	40.0	2	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH05-2'**  
**E503097-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	<b>0.0799</b>	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	<b>0.122</b>	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	<b>0.122</b>	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		78.8 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	<b>44.5</b>	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	<b>343</b>	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH05-4'**  
**E503097-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		79.0 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	537	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	1710	20.0	1	03/14/25	03/14/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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**BH05-6.5'**

**E503097-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		78.3 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2511072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	03/14/25	03/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	379	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	03/14/25	03/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2511071
Chloride	321	20.0	1	03/14/25	03/14/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2511072-BLK1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			

**LCS (2511072-BS1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	4.76	0.0250	5.00		95.1	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.6	70-130			
Toluene	4.67	0.0250	5.00		93.4	70-130			
o-Xylene	4.53	0.0250	5.00		90.6	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.7	0.0250	15.0		91.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.38		8.00		79.8	70-130			

**Matrix Spike (2511072-MS1)**

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133			
Toluene	4.99	0.0250	5.00	ND	99.8	61-130			
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131			
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.31		8.00		78.9	70-130			

**Matrix Spike Dup (2511072-MSD1)**

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Benzene	5.37	0.0250	5.00	ND	107	54-133	5.53	20	
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133	5.35	20	
Toluene	5.27	0.0250	5.00	ND	105	61-130	5.52	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.18	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.19	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.19	20	
Surrogate: 4-Bromochlorobenzene-PID	6.30		8.00		78.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2511072-BLK1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

**LCS (2511072-BS2)**

Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	38.9	20.0	50.0		77.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

**Matrix Spike (2511072-MS2)**

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

**Matrix Spike Dup (2511072-MSD2)**

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.6	70-130	2.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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#### 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 (2511078-BLK1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.5		50.0		105	61-141			

**LCS (2511078-BS1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	244	25.0	250		97.5	66-144			
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	61-141			

**Matrix Spike (2511078-MS1)**

Source: E503097-10

Prepared: 03/14/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	21400	125	250	22900	NR	56-156			M4
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	61-141			

**Matrix Spike Dup (2511078-MSD1)**

Source: E503097-10

Prepared: 03/14/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	22800	125	250	22900	NR	56-156	6.37	20	M4
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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#### 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 (2511079-BLK1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

**LCS (2511079-BS1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

**Matrix Spike (2511079-MS1)**

Source: E503096-01

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

**Matrix Spike Dup (2511079-MSD1)**

Source: E503096-01

Prepared: 03/14/25 Analyzed: 03/14/25

Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 3/19/2025 3:32:46PM
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#### Anions by EPA 300.0/9056A

Analyst: AK

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 (2511071-BLK1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Chloride ND 20.0

**LCS (2511071-BS1)**

Prepared: 03/14/25 Analyzed: 03/14/25

Chloride 255 20.0 250 102 90-110

**Matrix Spike (2511071-MS1)**

Source: E503097-08

Prepared: 03/14/25 Analyzed: 03/14/25

Chloride 748 20.0 250 501 98.9 80-120

**Matrix Spike Dup (2511071-MSD1)**

Source: E503097-08

Prepared: 03/14/25 Analyzed: 03/14/25

Chloride 742 20.0 250 501 96.3 80-120 0.884 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 03/19/25 15:32
---	---	------------------------------------

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Charles Ling Well Pad				Address: 3122 National Parks Hwy				E503097		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			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			
0956	3-12-25	S	4	BH02-2'			1						X								
1008		S	1	BH02-4'			2						X								
1017		S	1	BH02-6'			3						X								
1022		S	1	BH03-0'			4						X								
1025		S	1	BH03-1'			5						X								
1028		S	1	BH03-2'			6						X								
1050		S	1	BH04-0'			7						X								
1051		S	1	BH04-1'			8						X								
1053		S	1	BH04-2'			9						X								
1115		S	1	BH05-0'			10						X								

Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez, Aboubakar Kone

Relinquished by: (Signature) <i>[Signature]</i>	Date 3-13-25	Time 1105	Received by: (Signature) <i>Michelle Gonzales</i>	Date 3-13-25	Time 1105	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N  T1 _____ T2 _____ T3 _____  AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 3-13-25	Time 1700	Received by: (Signature) <i>John St.</i>	Date 3-13-25	Time 1700	
Relinquished by: (Signature) <i>John St.</i>	Date 3-13-25	Time 2300	Received by: (Signature) <i>Kayla R Hall</i>	Date 3-14-25	Time 0430	
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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Chain of Custody

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

Client Information				Invoice Information				Lab Use Only				TAT				State									
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX						
Project: Charles Ling Well Pad				Address: 3122 National Parks Hwy				E 503097		23003-0002					X	X									
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055		Email: agiovengo@ensolum.com		Analysis and Method				EPA Program									
Address: 3122 National Parks Hwy				Phone: 575-988-0055				Miscellaneous:						SDWA				CWA				RCRA			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com										Compliance				Y or N							
Phone: 575-988-0055														PWSID #											
Email: agiovengo@ensolum.com																									
Sample Information																									
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	Remarks										
1119	3-12-25	S	1	BH05-2'		11						X													
1123		S	1	BH05-4'		12						X													
1151		S	1	BH05-6.5'		13						X													
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez, Aboubakar Kone																									
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																	
<i>[Signature]</i>		3-13-25	1105	Michelle Gonzales		3-13-25	1105																		
<i>[Signature]</i>		3-13-25	1700	<i>[Signature]</i>		3.13.25	1700																		
<i>[Signature]</i>		3.13.25	2300	Michelle K Hall		3-14-25	0430																		
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: 3/14/2025 8:47:37AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 03/14/25 04:30	Work Order ID: E503097
Phone: (972) 371-5200	Date Logged In: 03/13/25 16:32	Logged In By: Noe Soto
Email: agiovengo@ensolum.com	Due Date: 03/20/25 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

Carrier: Courier

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

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

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

#### Sample Container

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

#### Field Label

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

#### Sample Preservation

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

#### Multiphase Sample Matrix

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

#### Subcontract Laboratory

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

#### Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling 224 Well Pad

Work Order: E504148

Job Number: 23003-0002

Received: 4/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/23/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/23/25



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

Project Name: Charles Ling 224 Well Pad  
Workorder: E504148  
Date Received: 4/18/2025 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2025 8:15:00AM, under the Project Name: Charles Ling 224 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling 224 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05C-0'	E504148-01A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:21:16PM
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**SS05C-0'**

**E504148-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.6 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516096
Chloride	180	20.0	1	04/18/25	04/18/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:21:16PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

**LCS (2516090-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.64	0.0250	5.00		92.9	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.64	0.0250	5.00		92.9	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.07	0.0500	10.0		90.7	70-130			
Total Xylenes	13.7	0.0250	15.0		91.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

**Matrix Spike (2516090-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.68	0.0250	5.00	ND	93.6	70-130			
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	70-130			
Toluene	4.67	0.0250	5.00	ND	93.5	70-130			
o-Xylene	4.65	0.0250	5.00	ND	92.9	70-130			
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130			
Total Xylenes	13.8	0.0250	15.0	ND	91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

**Matrix Spike Dup (2516090-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.87	0.0250	5.00	ND	97.5	70-130	4.02	27	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	70-130	4.29	26	
Toluene	4.88	0.0250	5.00	ND	97.6	70-130	4.38	20	
o-Xylene	4.85	0.0250	5.00	ND	97.0	70-130	4.32	25	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	70-130	4.01	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	70-130	4.12	26	
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:21:16PM
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#### 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 (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

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

**LCS (2516090-BS2)**

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

**Matrix Spike (2516090-MS2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

**Matrix Spike Dup (2516090-MSD2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130	1.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:21:16PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2516094-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	61-141			

**LCS (2516094-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	307	25.0	250		123	66-144			
Surrogate: n-Nonane	57.0		50.0		114	61-141			

**Matrix Spike (2516094-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	408	25.0	250	32.5	150	56-156			
Surrogate: n-Nonane	71.1		50.0		142	61-141			S3

**Matrix Spike Dup (2516094-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	402	25.0	250	32.5	148	56-156	1.67	20	
Surrogate: n-Nonane	70.1		50.0		140	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:21:16PM
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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 (2516096-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride ND 20.0

**LCS (2516096-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 254 20.0 250 102 90-110

**Matrix Spike (2516096-MS1)**

Source: E504144-03

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 351 20.0 250 93.3 103 80-120

**Matrix Spike Dup (2516096-MSD1)**

Source: E504144-03

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 351 20.0 250 93.3 103 80-120 0.0561 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:21
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S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



# Chain of Custody

<b>Client Information</b>			<b>Invoice Information</b>			<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: <b>Matador Production Company</b>			Company: <b>Ensolum LLC</b>			Lab WO# <b>E504148</b>		Job Number <b>23031002</b>		1D	2D	3D	Std	NM	CO	UT	TX
Project: <b>Charles Ling 224 Well Pad</b>			Address: <b>3122 National Parks Hwy</b>											X			
Project Manager: <b>Ashley Giovenno</b>			City, State, Zip: <b>Carlsbad NM, 88220</b>														
Address: <b>3122 National Parks Hwy</b>			Phone: <b>575-988-0055</b>														
City, State, Zip: <b>Carlsbad NM, 88220</b>			Email: <b>agiovenno@ensolum.com</b>														
Phone: <b>575-988-0055</b>			Miscellaneous:														
Email: <b>agiovenno@ensolum.com</b>																	

Sample Information													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	
1312	4/16/25	S	1	SS05C-01		1						X						Compliance Y or N
																		PWSID #
																		Remarks
																		Individual temp °C
																		35

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovenno@ensolum.com, chamilton@ensolum.com, lestrella@ensolum.com, bsimmons@ensolum.com, lgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

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

Sampled by: <u>Chad Hamilton</u>		<u>Abeubarar Hade</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	4/17/25		<u>Michelle Gonzalez</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
<u>Michelle Gonzalez</u>	4-17-25	1630	<u>J.L. Jr.</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
<u>J.L. Jr.</u>	4-17-25	2400	<u>Caitlin Mason</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)

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.

Received on ice:  Y  N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 3.5

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.

Released to Imaging: 9/17/2025 10:44:00 AM

Received by: OCD: 8/29/2025 7:14:11 AM

Page 11 of 12

Page 160 of 160



Envirotech Analytical Laboratory

Printed: 4/18/2025 11:12:54AM

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: 04/18/25 08:15 Work Order ID: E504148
Phone: (972) 371-5200 Date Logged In: 04/17/25 15:35 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 04/24/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. If no visible ice, record the temperature. Actual sample temperature: 3.5°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

Empty box for Client Instruction

Comments/Resolution

Individual sample temperatures listed on COC.

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: Charles Ling 224 Well Pad

Work Order: E504149

Job Number: 23003-0002

Received: 4/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/23/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/23/25



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

Project Name: Charles Ling 224 Well Pad  
Workorder: E504149  
Date Received: 4/18/2025 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2025 8:15:00AM, under the Project Name: Charles Ling 224 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling 224 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02-8'	E504149-01A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
BH02-9'	E504149-02A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
BH02-10'	E504149-03A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
BH02-11'	E504149-04A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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**BH02-8'**  
**E504149-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.6 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.9 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	190	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	247	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516096
Chloride	2670	40.0	2	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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**BH02-9'**  
**E504149-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.1 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.9 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	29.0	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	59.1	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516096
Chloride	605	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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**BH02-10'**

**E504149-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	74.8	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	79.0	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2516096
Chloride	2170	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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**BH02-11'**

**E504149-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.5 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.6 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516096
Chloride	289	20.0	1	04/18/25	04/18/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

**LCS (2516090-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.64	0.0250	5.00		92.9	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.64	0.0250	5.00		92.9	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.07	0.0500	10.0		90.7	70-130			
Total Xylenes	13.7	0.0250	15.0		91.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

**Matrix Spike (2516090-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.68	0.0250	5.00	ND	93.6	70-130			
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	70-130			
Toluene	4.67	0.0250	5.00	ND	93.5	70-130			
o-Xylene	4.65	0.0250	5.00	ND	92.9	70-130			
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130			
Total Xylenes	13.8	0.0250	15.0	ND	91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

**Matrix Spike Dup (2516090-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.87	0.0250	5.00	ND	97.5	70-130	4.02	27	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	70-130	4.29	26	
Toluene	4.88	0.0250	5.00	ND	97.6	70-130	4.38	20	
o-Xylene	4.85	0.0250	5.00	ND	97.0	70-130	4.32	25	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	70-130	4.01	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	70-130	4.12	26	
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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#### 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 (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

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

**LCS (2516090-BS2)**

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130		

**Matrix Spike (2516090-MS2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130		

**Matrix Spike Dup (2516090-MSD2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130	1.95	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130		



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2516094-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	61-141			

**LCS (2516094-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	307	25.0	250		123	66-144			
Surrogate: n-Nonane	57.0		50.0		114	61-141			

**Matrix Spike (2516094-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	408	25.0	250	32.5	150	56-156			
Surrogate: n-Nonane	71.1		50.0		142	61-141			S3

**Matrix Spike Dup (2516094-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	402	25.0	250	32.5	148	56-156	1.67	20	
Surrogate: n-Nonane	70.1		50.0		140	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:22:29PM
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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 (2516096-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride ND 20.0

**LCS (2516096-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 254 20.0 250 102 90-110

**Matrix Spike (2516096-MS1)**

Source: E504144-03

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 351 20.0 250 93.3 103 80-120

**Matrix Spike Dup (2516096-MSD1)**

Source: E504144-03

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 351 20.0 250 93.3 103 80-120 0.0561 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:22
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S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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





Envirotech Analytical Laboratory

Printed: 4/18/2025 11:18:56AM

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: 04/18/25 08:15	Work Order ID: E504149
Phone: (972) 371-5200	Date Logged In: 04/17/25 15:43	Logged In By: Noe Soto
Email: agiovengo@ensolum.com	Due Date: 04/24/25 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

Carrier: Courier

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

**Comments/Resolution**

Individual sample temperatures listed on COC.

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

- 13. If no visible ice, record the temperature. Actual sample temperature: 3.5°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: Charles Ling 224 Well Pad

Work Order: E504151

Job Number: 23003-0002

Received: 4/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/23/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/23/25



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

Project Name: Charles Ling 224 Well Pad  
Workorder: E504151  
Date Received: 4/18/2025 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2025 8:15:00AM, under the Project Name: Charles Ling 224 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling 224 Well Pad 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  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-10'	E504151-01A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
BH05-12'	E504151-02A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
BH05-14'	E504151-03A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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**BH05-10'**  
**E504151-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.6 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	169	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516097
Chloride	893	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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**BH05-12'**

**E504151-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	474	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>		121 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2516097
Chloride	501	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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**BH05-14'**

**E504151-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2516090
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2516094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/25	04/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/19/25	
<i>Surrogate: n-Nonane</i>		120 %	61-141	04/18/25	04/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2516097
Chloride	86.9	20.0	1	04/18/25	04/18/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

**LCS (2516090-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.64	0.0250	5.00		92.9	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.64	0.0250	5.00		92.9	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.07	0.0500	10.0		90.7	70-130			
Total Xylenes	13.7	0.0250	15.0		91.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

**Matrix Spike (2516090-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.68	0.0250	5.00	ND	93.6	70-130			
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	70-130			
Toluene	4.67	0.0250	5.00	ND	93.5	70-130			
o-Xylene	4.65	0.0250	5.00	ND	92.9	70-130			
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130			
Total Xylenes	13.8	0.0250	15.0	ND	91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

**Matrix Spike Dup (2516090-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.87	0.0250	5.00	ND	97.5	70-130	4.02	27	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	70-130	4.29	26	
Toluene	4.88	0.0250	5.00	ND	97.6	70-130	4.38	20	
o-Xylene	4.85	0.0250	5.00	ND	97.0	70-130	4.32	25	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	70-130	4.01	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	70-130	4.12	26	
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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#### 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 (2516090-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

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

**LCS (2516090-BS2)**

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

**Matrix Spike (2516090-MS2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

**Matrix Spike Dup (2516090-MSD2)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130	1.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2516094-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	61-141			

**LCS (2516094-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	307	25.0	250		123	66-144			
Surrogate: n-Nonane	57.0		50.0		114	61-141			

**Matrix Spike (2516094-MS1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	408	25.0	250	32.5	150	56-156			
Surrogate: n-Nonane	71.1		50.0		142	61-141			S3

**Matrix Spike Dup (2516094-MSD1)**

Source: E504144-05

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	402	25.0	250	32.5	148	56-156	1.67	20	
Surrogate: n-Nonane	70.1		50.0		140	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:24:54PM
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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 (2516097-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride	ND	20.0							
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**LCS (2516097-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride	255	20.0	250		102	90-110			
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**Matrix Spike (2516097-MS1)**

Source: E504152-02

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride	712	20.0	250	449	106	80-120			
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**Matrix Spike Dup (2516097-MSD1)**

Source: E504152-02

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride	716	20.0	250	449	107	80-120	0.459	20	
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:24
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S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

<b>Client Information</b>		<b>Invoice Information</b>		<b>Lab Use Only</b>		<b>TAT</b>		<b>State</b>					
Client: Matador Production Company		Company: Ensolum LLC		Lab WOH#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: Charles Ling 224 Well Pad		Address: 3122 National Parks Hwy		E524151	2803-0002				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			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	SGDOC - NM	TCO 1005 - TX	RCRA 8 Metals	SOWA	CWA		RCRA	
1246	4/16/25	S	1	BH05-10'			1						X							Individual Temp °F
1312 <del>1246</del>	4/16/25	S	1	BH05-12'			2						^							3.8
1349	4/16/25	S	1	BH05-14'			3						^							3.9

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, lestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@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.

Relinquished by: (Signature) <u>Chad Hamilton</u>		Date	Time	Received by: (Signature) <u>Ashley Giovengo</u>	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>3.7</u>
Relinquished by: (Signature) <u>Michelle Gonzalez</u>		4/17/25	1630	Received by: (Signature) <u>Michelle Gonzalez</u>	4/17/25	0711	
Relinquished by: (Signature) <u>Michelle Gonzalez</u>		4/17/25	1630	Received by: (Signature) <u>Michelle Gonzalez</u>	4/17/25	1700	
Relinquished by: (Signature) <u>Michelle Gonzalez</u>		4/17/25	2400	Received by: (Signature) <u>Caitlyn Mauer</u>	4/18/25	815	

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.

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

Page 13 of 14

Page 189 of 570



Envirotech Analytical Laboratory

Printed: 4/18/2025 11:33:53AM

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: 04/18/25 08:15 Work Order ID: E504151
Phone: (972) 371-5200 Date Logged In: 04/17/25 15:50 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 04/24/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. If no visible ice, record the temperature. Actual sample temperature: 3.7°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

Empty box for client instruction.

Comments/Resolution

Individual sample temperatures listed on COC.

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: Charles Ling 224 Well Pad

Work Order: E504152

Job Number: 23003-0002

Received: 4/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/23/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/23/25



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

Project Name: Charles Ling 224 Well Pad  
Workorder: E504152  
Date Received: 4/18/2025 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2025 8:15:00AM, under the Project Name: Charles Ling 224 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling 224 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:27
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05 - 0'	E504152-01A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
SS05A - 0'	E504152-02A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.
SS05B - 0'	E504152-03A	Soil	04/16/25	04/18/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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**SS05 - 0'**  
**E504152-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2516091
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2516091
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KH		Batch: 2516095
Diesel Range Organics (C10-C28)	241	25.0	1	04/18/25	04/18/25	
Oil Range Organics (C28-C36)	88.8	50.0	1	04/18/25	04/18/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	04/18/25	04/18/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2516097
Chloride	506	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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**SS05A - 0'**

**E504152-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516091
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.8 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516091
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516095
Diesel Range Organics (C10-C28)	462	25.0	1	04/18/25	04/18/25	
Oil Range Organics (C28-C36)	99.3	50.0	1	04/18/25	04/18/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	04/18/25	04/18/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516097
Chloride	449	20.0	1	04/18/25	04/18/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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**SS05B - 0'**

**E504152-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2516091
Benzene	ND	0.0250	1	04/18/25	04/18/25	
Ethylbenzene	ND	0.0250	1	04/18/25	04/18/25	
Toluene	ND	0.0250	1	04/18/25	04/18/25	
o-Xylene	ND	0.0250	1	04/18/25	04/18/25	
p,m-Xylene	ND	0.0500	1	04/18/25	04/18/25	
Total Xylenes	ND	0.0250	1	04/18/25	04/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.4 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2516091
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/25	04/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	04/18/25	04/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2516095
Diesel Range Organics (C10-C28)	36.7	25.0	1	04/18/25	04/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/25	04/18/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/18/25	04/18/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2516097
Chloride	130	20.0	1	04/18/25	04/18/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2516091-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

**LCS (2516091-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.39	0.0250	5.00		87.9	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.1	70-130			
Toluene	4.39	0.0250	5.00		87.8	70-130			
o-Xylene	4.32	0.0250	5.00		86.5	70-130			
p,m-Xylene	8.68	0.0500	10.0		86.8	70-130			
Total Xylenes	13.0	0.0250	15.0		86.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

**Matrix Spike (2516091-MS1)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.09	0.0250	5.00	ND	81.7	70-130			
Ethylbenzene	4.05	0.0250	5.00	ND	81.0	70-130			
Toluene	4.09	0.0250	5.00	ND	81.8	70-130			
o-Xylene	4.03	0.0250	5.00	ND	80.6	70-130			
p,m-Xylene	8.09	0.0500	10.0	ND	80.9	70-130			
Total Xylenes	12.1	0.0250	15.0	ND	80.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

**Matrix Spike Dup (2516091-MSD1)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Benzene	4.23	0.0250	5.00	ND	84.7	70-130	3.56	27	
Ethylbenzene	4.21	0.0250	5.00	ND	84.3	70-130	3.95	26	
Toluene	4.24	0.0250	5.00	ND	84.8	70-130	3.61	20	
o-Xylene	4.18	0.0250	5.00	ND	83.5	70-130	3.53	25	
p,m-Xylene	8.40	0.0500	10.0	ND	84.0	70-130	3.81	23	
Total Xylenes	12.6	0.0250	15.0	ND	83.8	70-130	3.72	26	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2516091-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

**LCS (2516091-BS2)**

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			

**Matrix Spike (2516091-MS2)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			

**Matrix Spike Dup (2516091-MSD2)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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#### 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 (2516095-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			

**LCS (2516095-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	238	25.0	250		95.2	66-144			
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.7	61-141			

**Matrix Spike (2516095-MS1)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.1	56-156			
Surrogate: <i>n</i> -Nonane	50.9		50.0		102	61-141			

**Matrix Spike Dup (2516095-MSD1)**

Source: E504153-02

Prepared: 04/18/25 Analyzed: 04/18/25

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	6.54	20	
Surrogate: <i>n</i> -Nonane	53.0		50.0		106	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 4/23/2025 4:27:25PM
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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 (2516097-BLK1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride ND 20.0

**LCS (2516097-BS1)**

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 255 20.0 250 102 90-110

**Matrix Spike (2516097-MS1)**

Source: E504152-02

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 712 20.0 250 449 106 80-120

**Matrix Spike Dup (2516097-MSD1)**

Source: E504152-02

Prepared: 04/18/25 Analyzed: 04/18/25

Chloride 716 20.0 250 449 107 80-120 0.459 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 04/23/25 16:27
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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

<b>Client Information</b>		<b>Invoice Information</b>		<b>Lab Use Only</b>		<b>TAT</b>		<b>State</b>					
Client: Matador Production Company		Company: Ensolum LLC		Lab WOV	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: Charles Ling 224 Well Pad		Address: 3122 National Parks Hwy		E04152	2305-002				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			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	SGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SOWA	CWA		RCRA
0856	4/16/25	S	1	SS05 - 0'		1						X						Individual Temp °C 3.6
1021	4/16/25	S	1	SS05A - 0'		2						X						3.8
1144	4/16/25	S	1	SS05B - 0'		3						X						3.5

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@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: Chad Hamilton Aboubakar Bone

Relinquished by: (Signature) <i>[Signature]</i>	Date 4/17/25	Time	Received by: (Signature) <i>[Signature]</i>	Date 4-17-25	Time 0711	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 treatment day.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N  T1 _____ T2 _____ T3 _____  AVG Temp °C <u>3.6</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-17-25	Time 1630	Received by: (Signature) <i>[Signature]</i>	Date 4-17-25	Time 1700	
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-17-25	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 4-18-25	Time 815	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA \_\_\_\_\_

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



Envirotech Analytical Laboratory

Printed: 4/18/2025 11:35:19AM

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: 04/18/25 08:15 Work Order ID: E504152
Phone: (972) 371-5200 Date Logged In: 04/17/25 15:55 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 04/24/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. If no visible ice, record the temperature. Actual sample temperature: 3.6°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

Empty box for client instruction.

Comments/Resolution

Individual sample temperatures listed on COC.

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: Charles Ling 223

Work Order: E505114

Job Number: 23003-0002

Received: 5/12/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/15/25

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: 5/15/25

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

Project Name: Charles Ling 223  
Workorder: E505114  
Date Received: 5/12/2025 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/12/2025 8:30:00AM, under the Project Name: Charles Ling 223.

The analytical test results summarized in this report with the Project Name: Charles Ling 223 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/15/25 12:50
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS19-0.5'	E505114-01A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
FS20-0.5'	E505114-02A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
FS23-0.5'	E505114-03A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
FS24-0.5'	E505114-04A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
FS08-0.5'	E505114-05A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
FS09-0.5'	E505114-06A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS19-0.5'**

**E505114-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/13/25	
Toluene	ND	0.0250	1	05/12/25	05/13/25	
o-Xylene	ND	0.0250	1	05/12/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.2 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520051
Chloride	3870	40.0	2	05/13/25	05/13/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS20-0.5'**

**E505114-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/13/25	
Toluene	ND	0.0250	1	05/12/25	05/13/25	
o-Xylene	ND	0.0250	1	05/12/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.9 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.6 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
		99.5 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	3340	40.0	2	05/13/25	05/13/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS23-0.5'**

**E505114-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/14/25	
Toluene	ND	0.0250	1	05/12/25	05/14/25	
o-Xylene	ND	0.0250	1	05/12/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	26.0	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
	97.3 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	2340	40.0	2	05/13/25	05/13/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS24-0.5'**

**E505114-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/14/25	
Toluene	ND	0.0250	1	05/12/25	05/14/25	
o-Xylene	ND	0.0250	1	05/12/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.3 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	37.2	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
		99.1 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	3390	40.0	2	05/13/25	05/13/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS08-0.5'**

**E505114-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/13/25	
Toluene	ND	0.0250	1	05/12/25	05/13/25	
o-Xylene	ND	0.0250	1	05/12/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.5 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.3 %	70-130	05/12/25	05/13/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
		99.9 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	157	20.0	1	05/13/25	05/13/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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**FS09-0.5'**

**E505114-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Benzene	ND	0.0250	1	05/12/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/14/25	
Toluene	ND	0.0250	1	05/12/25	05/14/25	
o-Xylene	ND	0.0250	1	05/12/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.0 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	157	20.0	1	05/13/25	05/13/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2520003-BLK1)**

Prepared: 05/12/25 Analyzed: 05/13/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.81		8.00		85.1	70-130			

**LCS (2520003-BS1)**

Prepared: 05/12/25 Analyzed: 05/14/25

Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.72		8.00		84.0	70-130			

**Matrix Spike (2520003-MS1)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/14/25

Benzene	5.12	0.0250	5.00	ND	102	70-130			
Ethylbenzene	5.11	0.0250	5.00	ND	102	70-130			
Toluene	5.14	0.0250	5.00	ND	103	70-130			
o-Xylene	5.05	0.0250	5.00	ND	101	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.4	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.67		8.00		83.4	70-130			

**Matrix Spike Dup (2520003-MSD1)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/13/25

Benzene	4.70	0.0250	5.00	ND	94.0	70-130	8.47	27	
Ethylbenzene	4.60	0.0250	5.00	ND	92.1	70-130	10.4	26	
Toluene	4.67	0.0250	5.00	ND	93.4	70-130	9.61	20	
o-Xylene	4.56	0.0250	5.00	ND	91.1	70-130	10.2	25	
p,m-Xylene	9.30	0.0500	10.0	ND	93.0	70-130	10.8	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.4	70-130	10.6	26	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2520003-BLK1)**

Prepared: 05/12/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

**LCS (2520003-BS2)**

Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

**Matrix Spike (2520003-MS2)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			

**Matrix Spike Dup (2520003-MSD2)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130	8.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		8.00		99.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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#### 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 (2520020-BLK1)**

Prepared: 05/12/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.4		50.0		96.8	61-141			

**LCS (2520020-BS1)**

Prepared: 05/12/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	256	25.0	250		102	66-144			
Surrogate: <i>n</i> -Nonane	47.7		50.0		95.4	61-141			

**Matrix Spike (2520020-MS1)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156			
Surrogate: <i>n</i> -Nonane	50.0		50.0		100	61-141			

**Matrix Spike Dup (2520020-MSD1)**

Source: E505114-05

Prepared: 05/12/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	1.36	20	
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/15/2025 12:50:31PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520051-BLK1)**

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride ND 20.0

**LCS (2520051-BS1)**

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride 255 20.0 250 102 90-110

**Matrix Spike (2520051-MS1)**

Source: E505108-08

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride 609 20.0 250 356 101 80-120

**Matrix Spike Dup (2520051-MSD1)**

Source: E505108-08

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride 612 20.0 250 356 102 80-120 0.412 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/15/25 12:50
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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

Received by OCD: 8/29/2025 7:14:11 AM

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Matador Production Company Project: Charles Ling 223 Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com	Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:	Lab WO# <b>ES05114</b> Job Number <b>23003-0002</b>	1D 2D 3D Std X	NM CO UT TX X

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
12:09	5/8/2025	S	1	FS19-0.5'		1						X						4.8
12:14	5/8/2025	S	1	FS20-0.5'		2						X						4.7
12:11	5/8/2025	S	1	FS23-0.5		3						X						3.1
12:12	5/8/2025	S	1	FS24-0.5'		4						X						3.4
13:27	5/8/2025	S	1	FS08-0.5'		5						X						4.1
13:28	5/8/2025	S	1	FS09-0.5'		6						X						4.8

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

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

Sampled by: <u>AK</u> ;HG						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	5/9/25	7:01	Michelle Gonzales	5-9-25	0711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	5-9-25	1620	<i>[Signature]</i>	5-9-25	1620	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	5-9-25	2215	Noe Soto	5-12-25	0830	
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.

Released to Imaging: 9/17/2025 10:44:00 AM

Page 220 of 570



Envirotech Analytical Laboratory

Printed: 5/12/2025 12:50:56PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 05/12/25 08:30 Work Order ID: E505114
Phone: (972) 371-5200 Date Logged In: 05/09/25 14:11 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/16/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling 223/224

Work Order: E505143

Job Number: 23003-0002

Received: 5/13/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/19/25

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: 5/19/25

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



Project Name: Charles Ling 223/224  
Workorder: E505143  
Date Received: 5/13/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2025 8:00:00AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/19/25 14:58
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-0.5'	E505143-01A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS02-0.5'	E505143-02A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS03-0.5'	E505143-03A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS04-0.5'	E505143-04A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS05-0.5'	E505143-05A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS06-0.5'	E505143-06A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS07-0.5'	E505143-07A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS10-0.5'	E505143-08A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS11-0.5'	E505143-09A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS12-0.5'	E505143-10A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS13-0.5'	E505143-11A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS14-0.5'	E505143-12A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS16-0.5'	E505143-13A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS18-0.5'	E505143-14A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS21-0.5'	E505143-15A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS22-0.5'	E505143-16A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS25-0.5'	E505143-17A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS26-0.5'	E505143-18A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS27-0.5'	E505143-19A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS28-0.5'	E505143-20A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS01-0.5'**

**E505143-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/14/25	
Toluene	ND	0.0250	1	05/13/25	05/14/25	
o-Xylene	ND	0.0250	1	05/13/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>		98.7 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520105
Chloride	171	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS02-0.5'**

**E505143-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	249	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS03-0.5'**

**E505143-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	222	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS04-0.5'**

**E505143-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	28.2	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	744	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS05-0.5'**

**E505143-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	38.8	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	55.1	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	177	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS06-0.5'**

**E505143-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	61.5	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	68.8	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>		99.8 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	210	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS07-0.5'**

**E505143-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	53.9	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	58.3	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>		98.5 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	121	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS10-0.5'**

**E505143-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/14/25	
Toluene	ND	0.0250	1	05/13/25	05/14/25	
o-Xylene	ND	0.0250	1	05/13/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.4 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	39.4	25.0	1	05/13/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		96.0 %	61-141	05/13/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	347	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS11-0.5'**

**E505143-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	174	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS12-0.5'**

**E505143-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	35.6	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		99.1 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	315	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS13-0.5'**

**E505143-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	27.9	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	448	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS14-0.5'**

**E505143-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	93.7	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	106	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	184	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS16-0.5'**

**E505143-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	484	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS18-0.5'**

**E505143-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		97.9 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	1060	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS21-0.5'**

**E505143-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	36.0	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		99.0 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	2350	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS22-0.5'**

**E505143-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		97.8 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	2530	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS25-0.5'**

**E505143-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	2480	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS26-0.5'**

**E505143-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	26.2	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	9700	200	10	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS27-0.5'**

**E505143-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	47.3	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	55.5	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	2480	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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**FS28-0.5'**

**E505143-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520041
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520034
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520105
Chloride	277	20.0	1	05/15/25	05/16/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520041-BLK1)**

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.40		8.00		105	70-130			

**LCS (2520041-BS1)**

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	5.61	0.0250	5.00		112	70-130			
Ethylbenzene	5.66	0.0250	5.00		113	70-130			
Toluene	5.68	0.0250	5.00		114	70-130			
o-Xylene	5.55	0.0250	5.00		111	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

**Matrix Spike (2520041-MS1)**

Source: E505143-08

Prepared: 05/13/25 Analyzed: 05/16/25

Benzene	5.49	0.0250	5.00	ND	110	70-130			
Ethylbenzene	5.38	0.0250	5.00	ND	108	70-130			
Toluene	5.45	0.0250	5.00	ND	109	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

**Matrix Spike Dup (2520041-MSD1)**

Source: E505143-08

Prepared: 05/13/25 Analyzed: 05/19/25

Benzene	5.88	0.0250	5.00	ND	118	70-130	6.92	27	
Ethylbenzene	5.83	0.0250	5.00	ND	117	70-130	8.12	26	
Toluene	5.88	0.0250	5.00	ND	118	70-130	7.60	20	
o-Xylene	5.69	0.0250	5.00	ND	114	70-130	7.62	25	
p,m-Xylene	11.7	0.0500	10.0	ND	117	70-130	8.02	23	
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130	7.89	26	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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#### 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 (2520041-BLK1)**

Prepared: 05/13/25 Analyzed: 05/14/25

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

**LCS (2520041-BS2)**

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

**Matrix Spike (2520041-MS2)**

Source: E505143-08

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

**Matrix Spike Dup (2520041-MSD2)**

Source: E505143-08

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	3.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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#### 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 (2520034-BLK1)**

Prepared: 05/13/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.6		50.0		97.2	61-141			

**LCS (2520034-BS1)**

Prepared: 05/13/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	48.2		50.0		96.4	61-141			

**Matrix Spike (2520034-MS1)**

Source: E505143-15

Prepared: 05/13/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	299	25.0	250	36.0	105	56-156			
Surrogate: n-Nonane	49.5		50.0		99.0	61-141			

**Matrix Spike Dup (2520034-MSD1)**

Source: E505143-15

Prepared: 05/13/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	302	25.0	250	36.0	106	56-156	0.990	20	
Surrogate: n-Nonane	48.8		50.0		97.6	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:58:38PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

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

**Blank (2520105-BLK1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	ND	20.0							
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**LCS (2520105-BS1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	255	20.0	250		102	90-110			
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**Matrix Spike (2520105-MS1)**

Source: E505143-03

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	458	20.0	250	222	94.3	80-120			
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**Matrix Spike Dup (2520105-MSD1)**

Source: E505143-03

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	465	20.0	250	222	97.0	80-120	1.49	20	
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/19/25 14:58
---	--	------------------------------------

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.



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				EE05143		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	TCEQ 1005 - TX	PCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1337	05/09/2025	S	1	FS01-0.5'			1									X				
1339	05/09/2025	S	1	FS02-0.5'			2									X				
1346	05/09/2025	S	1	FS03-0.5'			3									X				
1344	05/09/2025	S	1	FS04-0.5'			4									X				
1339	05/09/2025	S	1	FS05-0.5'			5									X				
1342	05/09/2025	S	1	FS06-0.5'			6									X				
1341	05/09/2025	S	1	FS07-0.5'			7									X				
1348	05/09/2025	S	1	FS10-0.5'			8									X				
1350	05/09/2025	S	1	FS11-0.5'			9									X				
1356	05/09/2025	S	1	FS12-0.5'			10									X				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a 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
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	5-12-25		Michelle Gonzalez	5-12-25	0711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzalez	5-12-25	1545	Richard Gonzalez	5-12-25	1545	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Richard Gonzalez	5-12-25	2215	Caitlin Mar	5-13-25	800	
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.

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

Page 32 edge P

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505143		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	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
1359	05/09/2025	S	1	FS13-0.5'		11								X		1.8			
1354	05/09/2025	S	1	FS14-0.5'		12								X		1.2			
1356	05/09/2025	S	1	FS16-0.5'		13								X		2.3			
1404	05/09/2025	S	1	FS18-0.5'		14								X		1.4			
0956	05/09/2025	S	1	FS21-0.5'		15								X		1.8			
0953	05/09/2025	S	1	FS22-0.5'		16								X		2.2			
1000	05/09/2025	S	1	FS25-0.5'		17								X		1.0			
0958	05/09/2025	S	1	FS26-0.5'		18								X		0.1			
1007	05/09/2025	S	1	FS27-0.5'		19								X		1.2			
1359	05/09/2025	S	1	FS28-0.5'		20								X		1.8			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone																			
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 on ice at a temp above 0 but less than 6°C on subsequent days.							
		5-12-25				Michelle Gonzalez		5-12-25		0711									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
		5-12-25		1545		Richard Gonzalez		5-12-25		1545									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
		5-12-25		2215		Cath Mar		5-13-25		800									
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: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
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: 5/13/2025 9:38:54AM

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: 05/13/25 08:00 Work Order ID: E505143
Phone: (972) 371-5200 Date Logged In: 05/12/25 16:59 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 05/19/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Project Charles Ling 223/224 has been separated into 2 reports due to sample volume, reports are E505143-E505144.

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: Charles Ling 223/224

Work Order: E505144

Job Number: 23003-0002

Received: 5/13/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/19/25

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: 5/19/25

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



Project Name: Charles Ling 223/224  
Workorder: E505144  
Date Received: 5/13/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2025 8:00:00AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

**Southern New Mexico Area**

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

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

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

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## Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Charles Ling 223/224

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

**Reported:**

05/19/25 14:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS29-0.5'	E505144-01A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS30-0.5'	E505144-02A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS31-0.5'	E505144-03A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS32-0.5'	E505144-04A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS33-0.5'	E505144-05A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS34-0.5'	E505144-06A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS35-0.5'	E505144-07A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS36-0.5'	E505144-08A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS38-0.5'	E505144-09A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS39-0.5'	E505144-10A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS48-0.5'	E505144-11A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS57-0.5'	E505144-12A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS76-0.5'	E505144-13A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS77-0.5'	E505144-14A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS78-0.5'	E505144-15A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS79-0.5'	E505144-16A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS80-0.5'	E505144-17A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS81-0.5'	E505144-18A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS82-0.5'	E505144-19A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS83-0.5'	E505144-20A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS84-0.5'	E505144-21A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.
FS97-0.5'	E505144-22A	Soil	05/09/25	05/13/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS29-0.5'**

**E505144-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	28.8	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520109
Chloride	2150	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS30-0.5'**

**E505144-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	<b>848</b>	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS31-0.5'**

**E505144-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	43.9	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	62.3	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	3050	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS32-0.5'**

**E505144-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	280	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	452	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	3020	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS33-0.5'**

**E505144-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	481	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	990	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	1080	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS34-0.5'**

**E505144-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	454	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	761	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	2500	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS35-0.5'**

**E505144-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.6 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	36.9	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	79.7	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	3870	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS36-0.5'**

**E505144-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	<b>188</b>	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	<b>215</b>	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	<b>5370</b>	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS38-0.5'**

**E505144-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/14/25	
Toluene	ND	0.0250	1	05/13/25	05/14/25	
o-Xylene	ND	0.0250	1	05/13/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.5 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	05/13/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	44.6	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	85.2	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		99.7 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	50.5	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS39-0.5'**

**E505144-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	32.1	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	69.1	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	117	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS48-0.5'**

**E505144-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	<b>105</b>	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	<b>186</b>	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	<b>3060</b>	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS57-0.5'**

**E505144-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	<b>108</b>	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	<b>135</b>	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	<b>1980</b>	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS76-0.5'**

**E505144-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	36.9	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	3670	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS77-0.5'**

**E505144-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	523	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	540	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	2670	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS78-0.5'**

**E505144-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	147	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	204	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	1830	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS79-0.5'**

**E505144-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	230	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	449	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	2710	40.0	2	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS80-0.5'**

**E505144-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	67.9	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	142	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		99.3 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	763	20.0	1	05/15/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS81-0.5'**

**E505144-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.8 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	36.5	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	52.3	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	1670	20.0	1	05/15/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS82-0.5'**

**E505144-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.5 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	<b>289</b>	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	<b>159</b>	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	<b>885</b>	20.0	1	05/15/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS83-0.5'**

**E505144-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.3 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520042
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520035
Diesel Range Organics (C10-C28)	77.3	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	126	50.0	1	05/13/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520109
Chloride	1170	20.0	1	05/15/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS84-0.5'**

**E505144-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520040
Benzene	ND	0.0250	1	05/13/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/16/25	
Toluene	ND	0.0250	1	05/13/25	05/16/25	
o-Xylene	ND	0.0250	1	05/13/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	05/13/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520040
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	05/13/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520058
Diesel Range Organics (C10-C28)	79.1	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	90.5	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520104
Chloride	2020	20.0	1	05/15/25	05/15/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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**FS97-0.5'**

**E505144-22**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520040
Benzene	ND	0.0250	1	05/13/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/16/25	
Toluene	ND	0.0250	1	05/13/25	05/16/25	
o-Xylene	ND	0.0250	1	05/13/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/13/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520040
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	05/13/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520037
Diesel Range Organics (C10-C28)	30.8	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520104
Chloride	4290	40.0	2	05/15/25	05/15/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2520040-BLK1)

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

#### LCS (2520040-BS1)

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.06	0.0250	5.00		101	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	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

#### Matrix Spike (2520040-MS1)

Source: E505141-25

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	5.09	0.0250	5.00	ND	102	70-130			
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130			
Toluene	5.06	0.0250	5.00	ND	101	70-130			
o-Xylene	5.04	0.0250	5.00	ND	101	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

#### Matrix Spike Dup (2520040-MSD1)

Source: E505141-25

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	5.13	0.0250	5.00	ND	103	70-130	0.857	27	
Ethylbenzene	5.12	0.0250	5.00	ND	102	70-130	1.13	26	
Toluene	5.12	0.0250	5.00	ND	102	70-130	1.08	20	
o-Xylene	5.09	0.0250	5.00	ND	102	70-130	0.971	25	
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130	1.17	23	
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130	1.10	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2520042-BLK1)

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.62		8.00		82.7	70-130			

#### LCS (2520042-BS1)

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	4.41	0.0250	5.00		88.3	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130			
Toluene	4.53	0.0250	5.00		90.5	70-130			
o-Xylene	4.49	0.0250	5.00		89.8	70-130			
p,m-Xylene	9.19	0.0500	10.0		91.9	70-130			
Total Xylenes	13.7	0.0250	15.0		91.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.89		8.00		86.2	70-130			

#### Matrix Spike (2520042-MS1)

Source: E505144-09

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	4.80	0.0250	5.00	ND	96.0	70-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130			
Toluene	4.92	0.0250	5.00	ND	98.5	70-130			
o-Xylene	4.91	0.0250	5.00	ND	98.1	70-130			
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	70-130			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.85		8.00		85.7	70-130			

#### Matrix Spike Dup (2520042-MSD1)

Source: E505144-09

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	4.92	0.0250	5.00	ND	98.3	70-130	2.42	27	
Ethylbenzene	5.05	0.0250	5.00	ND	101	70-130	2.37	26	
Toluene	5.03	0.0250	5.00	ND	101	70-130	2.11	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	70-130	1.80	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	2.24	23	
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130	2.10	26	
Surrogate: 4-Bromochlorobenzene-PID	6.85		8.00		85.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2520040-BLK1)**

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.61		8.00		108	70-130			

**LCS (2520040-BS2)**

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.80		8.00		110	70-130			

**Matrix Spike (2520040-MS2)**

Source: E505141-25

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

**Matrix Spike Dup (2520040-MSD2)**

Source: E505141-25

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	9.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2520042-BLK1)**

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			

**LCS (2520042-BS2)**

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.1	70-130			

**Matrix Spike (2520042-MS2)**

Source: E505144-09

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			

**Matrix Spike Dup (2520042-MSD2)**

Source: E505144-09

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130	6.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2520035-BLK1)**

Prepared: 05/13/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	61-141			

**LCS (2520035-BS1)**

Prepared: 05/13/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	264	25.0	250		106	66-144			
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.8	61-141			

**Matrix Spike (2520035-MS1)**

Source: E505144-18

Prepared: 05/13/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	318	25.0	250	36.5	113	56-156			
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	61-141			

**Matrix Spike Dup (2520035-MSD1)**

Source: E505144-18

Prepared: 05/13/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	309	25.0	250	36.5	109	56-156	3.02	20	
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### 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 (2520037-BLK1)**

Prepared: 05/13/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.6		50.0		111	61-141			

**LCS (2520037-BS1)**

Prepared: 05/13/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	321	25.0	250		129	66-144			
Surrogate: <i>n</i> -Nonane	59.2		50.0		118	61-141			

**Matrix Spike (2520037-MS1)**

Source: E505140-03

Prepared: 05/13/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	2780	25.0	250	2870	NR	56-156			M4
Surrogate: <i>n</i> -Nonane	59.9		50.0		120	61-141			

**Matrix Spike Dup (2520037-MSD1)**

Source: E505140-03

Prepared: 05/13/25 Analyzed: 05/15/25

Diesel Range Organics (C10-C28)	2770	25.0	250	2870	NR	56-156	0.370	20	M4
Surrogate: <i>n</i> -Nonane	60.8		50.0		122	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2520058-BLK1)**

Prepared: 05/13/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

**LCS (2520058-BS1)**

Prepared: 05/13/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	48.4		50.0		96.7	61-141			

**Matrix Spike (2520058-MS1)**

Source: E505145-01

Prepared: 05/13/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	342	25.0	250	63.7	111	56-156			
Surrogate: n-Nonane	50.7		50.0		101	61-141			

**Matrix Spike Dup (2520058-MSD1)**

Source: E505145-01

Prepared: 05/13/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	317	25.0	250	63.7	101	56-156	7.59	20	
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520104-BLK1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride ND 20.0

**LCS (2520104-BS1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride 256 20.0 250 102 90-110

**Matrix Spike (2520104-MS1)**

Source: E505142-04

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride 272 20.0 250 ND 109 80-120

**Matrix Spike Dup (2520104-MSD1)**

Source: E505142-04

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride 272 20.0 250 ND 109 80-120 0.0661 20



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/19/2025 2:25:40PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520109-BLK1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	ND	20.0							
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**LCS (2520109-BS1)**

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	253	20.0	250		101	90-110			
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**Matrix Spike (2520109-MS1)**

Source: E505144-04

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	3060	40.0	250	3020	16.7	80-120			M4
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**Matrix Spike Dup (2520109-MSD1)**

Source: E505144-04

Prepared: 05/15/25 Analyzed: 05/15/25

Chloride	3190	40.0	250	3020	67.2	80-120	4.04	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/19/25 14:25
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505144		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	TCEQ 1005 - TX	PCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1326	05/09/2025	S	1	FS48-0.5'			11								X					
1323	05/09/2025	S	1	FS57-0.5'			12								X					
1010	05/09/2025	S	1	FS76-0.5'			13								X					
1012	05/09/2025	S	1	FS77-0.5'			14								X					
1010	05/09/2025	S	1	FS78-0.5'			15								X					
1012	05/09/2025	S	1	FS79-0.5'			16								X					
0951	05/09/2025	S	1	FS80-0.5'			17								X					
0949	05/09/2025	S	1	FS81-0.5'			18								X					
1015	05/09/2025	S	1	FS82-0.5'			19								X					
0955	05/09/2025	S	1	FS83-0.5'			20								X					

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a 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					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	5-12-25		<i>Michelle Gonzalez</i>	5-12-25	0711						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Michelle Gonzalez</i>	5-12-25	1545	<i>Richard Gonzalez</i>	5-12-25	1545						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Richard Gonzalez</i>	5-12-25	2215	<i>Garth Mar</i>	5-13-25	800						
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.

<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab_WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505144		23003002					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	TCEQ 1005-TX	PCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
1407	05/09/2025	S	1	FS29-0.5'		1								X						
1410	05/09/2025	S	1	FS30-0.5'		2								X						
1417	05/09/2025	S	1	FS31-0.5'		3								X						
1319	05/09/2025	S	1	FS32-0.5'		4								X						
1003	05/09/2025	S	1	FS33-0.5'		5								X						
1007	05/09/2025	S	1	FS34-0.5'		6								X						
1316	05/09/2025	S	1	FS35-0.5'		7								X						
1313	05/09/2025	S	1	FS36-0.5'		8								X						
1346	05/09/2025	S	1	FS38-0.5'		9								X						
1349	05/09/2025	S	1	FS39-0.5'		10								X						

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

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Sampled by: Higinio Gonzalez, Aboubakar Kone

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 on ice at a temp above 0 but less than 6°C on subsequent days.
<i>[Signature]</i>	5-12-25		<i>Michelle Gonzalez</i>	5-12-25	6711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzalez</i>	5-12-25	1545	<i>Richard Gonzalez</i>	5-12-25	1545	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>Richard Gonzalez</i>	5-12-25	2215	<i>Cathy Mor</i>	5-13-25	800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice:
						<input checked="" type="radio"/> Y <input type="radio"/> N

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.

<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505144		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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
0957	05/09/2025	S	1	FS84-0.5'		21								X						
1000	05/09/2025	S	1	FS97-0.5'		22								X						

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N					
	5-12-25		Michelle Gonzales	5-12-25	6711						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
	5-12-25	1545	Richard Gonzalez	5-12-25	1545						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N					
	5-12-25	2215	Carth Moore	5-13-25	800						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Envirotech Analytical Laboratory

Printed: 5/13/2025 9:42:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 05/13/25 08:00 Work Order ID: E505144
Phone: (972) 371-5200 Date Logged In: 05/12/25 17:01 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 05/19/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Project Charles Ling 223/224 has been separated into 2 reports due to sample volume, reports are E505143-E505144.

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: Charles Ling 223/224

Work Order: E505154

Job Number: 23003-0002

Received: 5/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/20/25

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: 5/20/25

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



Project Name: Charles Ling 223/224  
Workorder: E505154  
Date Received: 5/14/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/14/2025 7:00:00AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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## Sample Summary

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

Project Name: Charles Ling 223/224  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
05/20/25 12:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS15-3'	E505154-01A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS17-3'	E505154-02A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS40-3'	E505154-03A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS41-0.5'	E505154-04A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS42-3'	E505154-05A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS43-3'	E505154-06A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS44-0.5'	E505154-07A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS45-0.5'	E505154-08A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS46-0.5'	E505154-09A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS47-3'	E505154-10A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS49-3'	E505154-11A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS52-0.5'	E505154-12A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS53-0.5'	E505154-13A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS54-0.5'	E505154-14A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS55-0.5'	E505154-15A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS56-0.5'	E505154-16A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS71-0.5'	E505154-17A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS72-0.5'	E505154-18A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS73-0.5'	E505154-19A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS75-0.5'	E505154-20A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS15-3'**

**E505154-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520124
Chloride	106	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS17-3'**

**E505154-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	218	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS40-3'**

**E505154-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	116	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS41-0.5'**

**E505154-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		96.8 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	182	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS42-3'**

**E505154-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	320	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS43-3'**

**E505154-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	736	20.0	1	05/16/25	05/17/25	

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS44-0.5'**

**E505154-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	29.7	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	319	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS45-0.5'**

**E505154-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/14/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	05/14/25	05/14/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	212	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS46-0.5'**

**E505154-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	184	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS47-3'**

**E505154-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	1730	40.0	2	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS49-3'**

**E505154-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	2620	40.0	2	05/16/25	05/17/25	

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS52-0.5'**

**E505154-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	232	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS53-0.5'**

**E505154-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	68.0	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	396	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS54-0.5'**

**E505154-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	121	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS55-0.5'**

**E505154-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.8 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	2110	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS56-0.5'**

**E505154-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.4 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	863	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS71-0.5'**

**E505154-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	462	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS72-0.5'**

**E505154-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	192	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS73-0.5'**

**E505154-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	89.1	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	84.6	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	486	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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**FS75-0.5'**

**E505154-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520068
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520075
Diesel Range Organics (C10-C28)	67.6	25.0	1	05/14/25	05/15/25	
Oil Range Organics (C28-C36)	115	50.0	1	05/14/25	05/15/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/14/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520124
Chloride	3580	40.0	2	05/16/25	05/17/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520068-BLK1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		101	70-130			

**LCS (2520068-BS1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.29	0.0250	5.00		106	70-130			
Toluene	5.27	0.0250	5.00		105	70-130			
o-Xylene	5.18	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	70-130			

**Matrix Spike (2520068-MS1)**

Source: E505154-08

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	4.85	0.0250	5.00	ND	97.1	70-130			
Ethylbenzene	5.03	0.0250	5.00	ND	101	70-130			
Toluene	5.02	0.0250	5.00	ND	100	70-130			
o-Xylene	4.93	0.0250	5.00	ND	98.7	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

**Matrix Spike Dup (2520068-MSD1)**

Source: E505154-08

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	5.17	0.0250	5.00	ND	103	70-130	6.26	27	
Ethylbenzene	5.37	0.0250	5.00	ND	107	70-130	6.47	26	
Toluene	5.35	0.0250	5.00	ND	107	70-130	6.37	20	
o-Xylene	5.28	0.0250	5.00	ND	106	70-130	6.86	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	6.21	23	
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130	6.42	26	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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#### 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 (2520068-BLK1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

**LCS (2520068-BS2)**

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

**Matrix Spike (2520068-MS2)**

Source: E505154-08

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			

**Matrix Spike Dup (2520068-MSD2)**

Source: E505154-08

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130	9.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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#### 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 (2520075-BLK1)**

Prepared: 05/14/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.7	61-141			

**LCS (2520075-BS1)**

Prepared: 05/14/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	265	25.0	250		106	66-144			
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

**Matrix Spike (2520075-MS1)**

Source: E505154-04

Prepared: 05/14/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156			
Surrogate: n-Nonane	48.6		50.0		97.3	61-141			

**Matrix Spike Dup (2520075-MSD1)**

Source: E505154-04

Prepared: 05/14/25 Analyzed: 05/14/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156	0.176	20	
Surrogate: n-Nonane	49.4		50.0		98.9	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 12:57:53PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520124-BLK1)**

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride	ND	20.0							
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**LCS (2520124-BS1)**

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride	262	20.0	250		105	90-110			
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**Matrix Spike (2520124-MS1)**

Source: E505154-04

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride	405	20.0	250	182	89.1	80-120			
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**Matrix Spike Dup (2520124-MSD1)**

Source: E505154-04

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride	480	20.0	250	182	119	80-120	17.1	20	
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/20/25 12:57
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505154		2303-002					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	TCOQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1106	5/12/25	S	1	FS15 - 3'		1								X					
1105	7	S	1	FS17 - 3'		2								X					
1102		S	1	FS40 - 3'		3								X					
1107		S	1	FS41 - 0.5'		4								X					
1107		S	1	FS42 - 3'		5								X					
1100		S	1	FS43 - 3'		6								X					
1103		S	1	FS44 - 0.5'		7								X					
1102		S	1	FS45 - 0.5'		8								X					
1051		S	1	FS46 - 0.5'		9								X					
1107		S	1	FS47 - 3'		10								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone																			
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 on ice at a temp above 0 but less than 6°C on subsequent days.			
<i>[Signature]</i>				5-13-25				<i>Michelle Gonzalez</i>				5-13-25		0711					
Michelle Gonzalez				5-13-25		1600		<i>[Signature]</i>				5-13-25		1630					
<i>[Signature]</i>				5-13-25		2215		<i>Caitlin Mann</i>				5-14-25		700					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only			
																Received on ice:			
																<input checked="" type="radio"/> Y <input type="radio"/> N			
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.																			

<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E5705154		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	TCEQ 1005 - TX	RCRA 8 Metals	RGDOC - NM	RGDOC - TX	SDWA	CWA	RCRA	
1109	5/12/25	S	1	FS49-3'			11								X					
1048		S	1	FS52-0.5'			12								X					
1055		S	1	FS53-0.5'			13								X					
1045		S	1	FS54-0.5'			14								X					
1038		S	1	FS55-0.5'			15								X					
1040		S	1	FS56-0.5'			16								X					
1059		S	1	FS71-0.5'			17								X					
1044		S	1	FS72-0.5'			18								X					
1037		S	1	FS73-0.5'			19								X					
1059		S	1	FS75-0.5'			20								X					

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone

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 on ice at a temp above 0 but less than 6°C on subsequent days.
<i>[Signature]</i>	5-13-25		Michelle Gonzalez	5-13-25	0711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzalez	5-13-25	1600	John J.	5-13-25	1630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
John J.	5-13-25	2215	Caitlin Mann	5-14-25	700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other      Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Envirotech Analytical Laboratory

Printed: 5/14/2025 9:13:37AM

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: 05/14/25 07:00	Work Order ID: E505154
Phone: (972) 371-5200	Date Logged In: 05/13/25 15:07	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 05/20/25 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

Carrier: Courier

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

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

**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**

**Comments/Resolution**

Project Charles Ling 223/224 has been separated into 2 reports. WO are E505154 & E505155.

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: Charles Ling 223/224

Work Order: E505155

Job Number: 23003-0002

Received: 5/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/20/25

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: 5/20/25

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

Project Name: Charles Ling 223/224  
Workorder: E505155  
Date Received: 5/14/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/14/2025 7:00:00AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

**Southern New Mexico Area**

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/20/25 16:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS108-0.5'	E505155-01A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS111-0.5'	E505155-02A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS113-0.5'	E505155-03A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS121-0.5'	E505155-04A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS122-0.5'	E505155-05A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS124-1'	E505155-06A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS125-0.5'	E505155-07A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS127-0.5'	E505155-08A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS134-0.5'	E505155-09A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS136-2'	E505155-10A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS140-2'	E505155-11A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS141-2'	E505155-12A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS142-0.5'	E505155-13A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS143-0.5'	E505155-14A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS145-2'	E505155-15A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS147-0.5'	E505155-16A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS149-2'	E505155-17A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS150-0.5'	E505155-18A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
FS151-0.5'	E505155-19A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS108-0.5'**

**E505155-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		81.9 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1730	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS111-0.5'**

**E505155-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.5 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	863	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1840	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS113-0.5'**

**E505155-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	759	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS121-0.5'**

**E505155-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		83.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	34.6	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1170	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS122-0.5'**

**E505155-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.6 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	<b>119</b>	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	<b>134</b>	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2520125
Chloride	<b>3520</b>	40.0	2	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS124-1'**

**E505155-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	37.9	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1220	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS125-0.5'**

**E505155-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/15/25	
Toluene	ND	0.0250	1	05/14/25	05/15/25	
o-Xylene	ND	0.0250	1	05/14/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.1 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	05/14/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	174	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	167	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1040	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS127-0.5'**

**E505155-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.1 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	<b>284</b>	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	<b>210</b>	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	<b>2120</b>	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS134-0.5'**

**E505155-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.0 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	57.0	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	3340	40.0	2	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS136-2'**  
**E505155-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.2 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	464	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	356	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS140-2'**

**E505155-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.0 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	575	25.0	1	05/14/25	05/16/25	
Oil Range Organics (C28-C36)	107	50.0	1	05/14/25	05/16/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	05/14/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	751	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS141-2'**  
**E505155-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.5 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	667	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2520125
Chloride	1270	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS142-0.5'**

**E505155-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	134	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	84.1	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1420	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS143-0.5'**

**E505155-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.9 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	<b>410</b>	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	<b>208</b>	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	<b>1070</b>	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS145-2'**

**E505155-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	246	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	232	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS147-0.5'**

**E505155-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.6 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.7 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	647	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	877	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	2170	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS149-2'**  
**E505155-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.1 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	269	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2520125
Chloride	228	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS150-0.5'**

**E505155-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	275	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	141	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1840	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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**FS151-0.5'**

**E505155-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Benzene	ND	0.0250	1	05/14/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/16/25	
Toluene	ND	0.0250	1	05/14/25	05/16/25	
o-Xylene	ND	0.0250	1	05/14/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2520069
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	05/14/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2520123
Diesel Range Organics (C10-C28)	60.0	25.0	1	05/14/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/25	05/17/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/14/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520125
Chloride	1110	20.0	1	05/16/25	05/17/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2520069-BLK1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.68		8.00		83.5	70-130			

**LCS (2520069-BS1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	5.91	0.0250	5.00		118	70-130			
Ethylbenzene	5.80	0.0250	5.00		116	70-130			
Toluene	5.88	0.0250	5.00		118	70-130			
o-Xylene	5.70	0.0250	5.00		114	70-130			
p,m-Xylene	11.7	0.0500	10.0		117	70-130			
Total Xylenes	17.4	0.0250	15.0		116	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.8	70-130			

**Matrix Spike (2520069-MS1)**

Source: E505155-07

Prepared: 05/14/25 Analyzed: 05/15/25

Benzene	5.69	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.58	0.0250	5.00	ND	112	70-130			
Toluene	5.64	0.0250	5.00	ND	113	70-130			
o-Xylene	5.47	0.0250	5.00	ND	109	70-130			
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130			
Total Xylenes	16.7	0.0250	15.0	ND	111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.86		8.00		85.7	70-130			

**Matrix Spike Dup (2520069-MSD1)**

Source: E505155-07

Prepared: 05/14/25 Analyzed: 05/20/25

Benzene	5.27	0.0250	5.00	ND	105	70-130	7.73	27	
Ethylbenzene	5.19	0.0250	5.00	ND	104	70-130	7.32	26	
Toluene	5.23	0.0250	5.00	ND	105	70-130	7.56	20	
o-Xylene	5.08	0.0250	5.00	ND	102	70-130	7.47	25	
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130	7.14	23	
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130	7.25	26	
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2520069-BLK1)**

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			

**LCS (2520069-BS2)**

Prepared: 05/14/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		83.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

**Matrix Spike (2520069-MS2)**

Source: E505155-07

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

**Matrix Spike Dup (2520069-MSD2)**

Source: E505155-07

Prepared: 05/14/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130	15.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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#### 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 (2520123-BLK1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.7		50.0		115	61-141			

**LCS (2520123-BS1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	286	25.0	250		114	66-144			
Surrogate: <i>n</i> -Nonane	53.7		50.0		107	61-141			

**Matrix Spike (2520123-MS1)**

Source: E505155-02RE1 Prepared: 05/16/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	1090	25.0	250	863	89.1	56-156			
Surrogate: <i>n</i> -Nonane	55.9		50.0		112	61-141			

**Matrix Spike Dup (2520123-MSD1)**

Source: E505155-02RE1 Prepared: 05/16/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	1320	25.0	250	863	182	56-156	19.3	20	M4
Surrogate: <i>n</i> -Nonane	56.1		50.0		112	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/20/2025 4:29:25PM
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#### Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520125-BLK1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride	ND	20.0							
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**LCS (2520125-BS1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride	259	20.0	250		104	90-110			
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**Matrix Spike (2520125-MS1)**

Source: E505155-01

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride	2490	20.0	250	1730	300	80-120			M4
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**Matrix Spike Dup (2520125-MSD1)**

Source: E505155-01

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride	2080	20.0	250	1730	138	80-120	17.8	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/20/25 16:29
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505155		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	TEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1431	5/12/25	S	1	FS108 - 0.5'			1								X		2.0			
1433		S	1	FS111 - 0.5'			2								X		1.6			
1435		S	1	FS113 - 0.5'			3								X		3.0			
1049		S	1	FS121 - 0.5'			4								X		2.6			
1429		S	1	FS122 - 0.5'			5								X		2.4			
1406		S	1	FS124 - 1'			6								X		0.8			
1047		S	1	FS125 - 0.5'			7								X		1.1			
1647		S	1	FS127 - 0.5'			8								X		1.6			
1428		S	1	FS134 - 0.5'			9								X		1.4			
1465		S	1	FS136 - 2'			10								X		2.0			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone

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 on ice at a temp above 0 but less than 6°C on subsequent days.
<i>[Signature]</i>	5-13-25		Michelle Gonzales	5-13-25	6711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzales	5-13-25	1600	<i>[Signature]</i>	5-13-25	1630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	5-13-25	2215	Carlynn Mann	5-14-25	700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice:
						<input checked="" type="radio"/> Y <input type="radio"/> N

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.

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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505155		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	TCCQ 1005 - TX	PCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1358	5/12/25	S	1	FS140 - 2'		11								X					
1401		S	1	FS141 - 2'		12								X					
1426		S	1	FS142 - 0.5'		13								X					
1424		S	1	FS143 - 0.5'		14								X					
1404		S	1	FS145 - 2'		15								X					
1416		S	1	FS147 - 0.5'		16								X					
1308		S	1	FS149 - 2'		17								X					
1421		S	1	FS150 - 0.5'		18								X					
1421		S	1	FS151 - 0.5'		19								X					
		S	1											X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Aboubakar Kone																			
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 on ice at a temp above 0 but less than 6°C on subsequent days.			
				5-13-25								5-13-25		0711					
				5-13-25		1600						5-13-25		1630					
				5-13-25		2215						5-14-25		700					
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			
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: 5/14/2025 9:15:40AM

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: 05/14/25 07:00 Work Order ID: E505155
Phone: (972) 371-5200 Date Logged In: 05/13/25 15:11 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/20/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Project Charles Ling 223/224 has been separated into 2 reports. WO are E505154 & E505155.

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: Charles Ling 223/224

Work Order: E505165

Job Number: 23003-0002

Received: 5/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/21/25

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: 5/21/25

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

Project Name: Charles Ling 223/224  
Workorder: E505165  
Date Received: 5/15/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2025 8:00:00AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/21/25 12:03
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS50-3'	E505165-01A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS51-3'	E505165-02A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS58-3'	E505165-03A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS62-3'	E505165-04A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS65-3'	E505165-05A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS66-3'	E505165-06A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS67-3'	E505165-07A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS68-2'	E505165-08A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS69-3'	E505165-09A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS99-0.5'	E505165-10A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS100-0.5'	E505165-11A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS101-0.5'	E505165-12A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS102-0.5'	E505165-13A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS103-0.5'	E505165-14A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS109-0.5'	E505165-15A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS110-0.5'	E505165-16A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS112-0.5'	E505165-17A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS115-3'	E505165-18A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS137-2'	E505165-19A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS138-2'	E505165-20A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS139-2'	E505165-21A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.
FS144-2'	E505165-22A	Soil	05/13/25	05/15/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS50-3'**

**E505165-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.4 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	6190	100	5	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS51-3'**

**E505165-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	41.2	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	3010	40.0	2	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS58-3'**

**E505165-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.6 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	30.2	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	3620	100	5	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS62-3'**

**E505165-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.1 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	61.9	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	64.3	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	515	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS65-3'**

**E505165-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	42.0	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1410	40.0	2	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS66-3'**

**E505165-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.8 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	39.2	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	50.5	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	543	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS67-3'**

**E505165-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	243	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS68-2'**

**E505165-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1390	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS69-3'**

**E505165-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.5 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	25.5	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1220	20.0	1	05/16/25	05/16/25	

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS99-0.5'**

**E505165-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.8 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.4 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	25.4	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	367	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS100-0.5'**

**E505165-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.9 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	37.6	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1930	20.0	1	05/16/25	05/16/25	

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS101-0.5'**

**E505165-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.9 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	49.1	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	53.0	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	609	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS102-0.5'**

**E505165-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	47.9	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	780	20.0	1	05/16/25	05/16/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS103-0.5'**

**E505165-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.9 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	64.1	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	72.8	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	861	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS109-0.5'**

**E505165-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.9 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	137	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	97.7	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		99.9 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	2460	40.0	2	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS110-0.5'**

**E505165-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.5 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	<b>106</b>	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	<b>96.3</b>	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	<b>741</b>	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS112-0.5'**

**E505165-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	158	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1260	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS115-3'**

**E505165-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.5 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.2 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	66.2	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	68.1	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		99.7 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	1580	40.0	2	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS137-2'**  
**E505165-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	39.6	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS138-2'**  
**E505165-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.8 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520102
Diesel Range Organics (C10-C28)	37.3	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520133
Chloride	29.1	20.0	1	05/16/25	05/17/25	

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS139-2'**  
**E505165-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520094
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520094
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520099
Diesel Range Organics (C10-C28)	95.7	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2520127
Chloride	146	20.0	1	05/16/25	05/17/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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**FS144-2'**

**E505165-22**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520094
Benzene	ND	0.0250	1	05/15/25	05/16/25	
Ethylbenzene	ND	0.0250	1	05/15/25	05/16/25	
Toluene	ND	0.0250	1	05/15/25	05/16/25	
o-Xylene	ND	0.0250	1	05/15/25	05/16/25	
p,m-Xylene	ND	0.0500	1	05/15/25	05/16/25	
Total Xylenes	ND	0.0250	1	05/15/25	05/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520094
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/25	05/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	05/15/25	05/16/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520099
Diesel Range Organics (C10-C28)	185	25.0	1	05/15/25	05/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/17/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/15/25	05/17/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2520127
Chloride	112	20.0	1	05/16/25	05/17/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520093-BLK1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

**LCS (2520093-BS1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.26	0.0250	5.00		105	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.22	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

**Matrix Spike (2520093-MS1)**

Source: E505165-09

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	5.26	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.28	0.0250	5.00	ND	106	70-130			
Toluene	5.25	0.0250	5.00	ND	105	70-130			
o-Xylene	5.23	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.56		8.00		107	70-130			

**Matrix Spike Dup (2520093-MSD1)**

Source: E505165-09

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	5.10	0.0250	5.00	ND	102	70-130	3.16	27	
Ethylbenzene	5.13	0.0250	5.00	ND	103	70-130	2.95	26	
Toluene	5.09	0.0250	5.00	ND	102	70-130	3.07	20	
o-Xylene	5.08	0.0250	5.00	ND	102	70-130	2.90	25	
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130	3.01	23	
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130	2.97	26	
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2520094-BLK1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

**LCS (2520094-BS1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	4.38	0.0250	5.00		87.6	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.37	0.0250	5.00		87.5	70-130			
o-Xylene	4.36	0.0250	5.00		87.2	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

**Matrix Spike (2520094-MS1)**

Source: E505161-06

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	4.96	0.0250	5.00	ND	99.2	70-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130			
Toluene	4.93	0.0250	5.00	ND	98.7	70-130			
o-Xylene	4.88	0.0250	5.00	ND	97.7	70-130			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	70-130			
Total Xylenes	14.9	0.0250	15.0	ND	99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			

**Matrix Spike Dup (2520094-MSD1)**

Source: E505161-06

Prepared: 05/15/25 Analyzed: 05/16/25

Benzene	4.50	0.0250	5.00	ND	90.0	70-130	9.65	27	
Ethylbenzene	4.49	0.0250	5.00	ND	89.7	70-130	9.47	26	
Toluene	4.49	0.0250	5.00	ND	89.8	70-130	9.47	20	
o-Xylene	4.50	0.0250	5.00	ND	89.9	70-130	8.22	25	
p,m-Xylene	9.12	0.0500	10.0	ND	91.2	70-130	9.09	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	70-130	8.80	26	
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### 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 (2520093-BLK1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.58		8.00		82.3	70-130			

**LCS (2520093-BS2)**

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

**Matrix Spike (2520093-MS2)**

Source: E505165-09

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			

**Matrix Spike Dup (2520093-MSD2)**

Source: E505165-09

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	12.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2520094-BLK1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

**LCS (2520094-BS2)**

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

**Matrix Spike (2520094-MS2)**

Source: E505161-06

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

**Matrix Spike Dup (2520094-MSD2)**

Source: E505161-06

Prepared: 05/15/25 Analyzed: 05/16/25

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2520099-BLK1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.0		50.0		106	61-141			

**LCS (2520099-BS1)**

Prepared: 05/15/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	277	25.0	250		111	66-144			
Surrogate: <i>n</i> -Nonane	50.4		50.0		101	61-141			

**Matrix Spike (2520099-MS1)**

Source: E505163-09

Prepared: 05/15/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156			
Surrogate: <i>n</i> -Nonane	52.2		50.0		104	61-141			

**Matrix Spike Dup (2520099-MSD1)**

Source: E505163-09

Prepared: 05/15/25 Analyzed: 05/16/25

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156	0.962	20	
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2520102-BLK1)**

Prepared: 05/15/25 Analyzed: 05/17/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	61-141			

**LCS (2520102-BS1)**

Prepared: 05/15/25 Analyzed: 05/17/25

Diesel Range Organics (C10-C28)	273	25.0	250		109	66-144			
Surrogate: <i>n</i> -Nonane	55.0		50.0		110	61-141			

**Matrix Spike (2520102-MS1)**

Source: E505165-02

Prepared: 05/15/25 Analyzed: 05/17/25

Diesel Range Organics (C10-C28)	312	25.0	250	41.2	108	56-156			
Surrogate: <i>n</i> -Nonane	50.9		50.0		102	61-141			

**Matrix Spike Dup (2520102-MSD1)**

Source: E505165-02

Prepared: 05/15/25 Analyzed: 05/17/25

Diesel Range Organics (C10-C28)	312	25.0	250	41.2	108	56-156	0.0365	20	
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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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 (2520127-BLK1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride ND 20.0

**LCS (2520127-BS1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride 261 20.0 250 104 90-110

**Matrix Spike (2520127-MS1)**

Source: E505153-23

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride 260 20.0 250 ND 104 80-120

**Matrix Spike Dup (2520127-MSD1)**

Source: E505153-23

Prepared: 05/16/25 Analyzed: 05/17/25

Chloride 258 20.0 250 ND 103 80-120 0.898 20



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/21/2025 12:03:30PM
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#### Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520133-BLK1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride ND 20.0

**LCS (2520133-BS1)**

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride 259 20.0 250 104 90-110

**Matrix Spike (2520133-MS1)**

Source: E505165-05

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride 1680 40.0 250 1410 106 80-120

**Matrix Spike Dup (2520133-MSD1)**

Source: E505165-05

Prepared: 05/16/25 Analyzed: 05/16/25

Chloride 1650 40.0 250 1410 93.7 80-120 1.86 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/21/25 12:03
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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 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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E6051105		22003-0002					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	FILTE	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA			
																	Compliance	Y	or	N		
																	PWSID #					
																	Sample Temp			Remarks		
1423	5-13-25	S	1	F550-3'			1								X						3.4	
1425		S	1	F551-3'			2								X							3.6
1427		S	1	F558-3'			3								X							3.2
1456		S	1	F562-3'			4								X							2.6
1458		S	1	F565-3'			5								X							2.4
1504		S	1	F566-3'			6								X							2.8
1506		S	1	F567-3'			7								X							3.0
1502		S	1	F568-2'			8								X							3.4
1508		S	1	F569-3'			9								X							3.8
1305		S	1	F599-0.5'			10								X							3.6
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, testrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez																						
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 on ice at a temp above 0 but less than 6°C on subsequent days.												
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time													
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time													
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time													
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:												
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	<input checked="" type="radio"/> Y <input type="radio"/> N												
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.																						

<b>Client Information</b>			<b>Invoice Information</b>			<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company			Company: Ensolum LLC			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 223/224			Address: 3122 National Parks Hwy			E505165		2303-0002					X	X			
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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA			
Compliance																	Y	or	N			
PWSID #																	Sample Temp	Remarks				
1303	5-13-25	S	1	FS100-0.5'			11								X						3.0	
1256		S	1	FS101-0.5'			12								X						2.6	
1300		S	1	FS102-0.5'			13								X						2.4	
1258		S	1	FS103-0.5'			14								X						2.1	
1254		S	1	FS109-0.5'			15								X						2.0	
1249		S	1	FS110-0.5'			16								X						3.2	
1252		S	1	FS112-0.5'			17								X						3.4	
1500		S	1	FS115-3'			18								X						1.8	
1005		S	1	FS137-2'			19								X						2.0	
1002		S	1	FS138-2'			20								X						2.2	

Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez																
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 on ice at a temp above 0 but less than 6°C on subsequent days.										
<i>Higinio Gonzalez</i>	5-14-25		<i>Michelle Gonzalez</i>	5-14-25	1030											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
<i>Michelle Gonzalez</i>	5-14-25	1700	<i>Michelle Gonzalez</i>	5-14-25	1700											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
<i>Michelle Gonzalez</i>	5-14-25	2300	<i>Michelle Gonzalez</i>	5-15-25	800											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only										
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice:										
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<input checked="" type="radio"/> Y <input type="radio"/> N										
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.

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505165		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	TCEQ 1065 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0959	5-13-25	S	1	FS139-2'		21								X					
1000	1	S	1	FS144-2'		22								X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez																			
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 on ice at a 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			
<i>[Signature]</i>				5-14-25		1700		<i>Michelle Gonzales</i>				5-14-25		1030					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
<i>Michelle Gonzales</i>				5-14-25		1700		<i>[Signature]</i>				5-14-25		1700					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
<i>[Signature]</i>				5-14-25		2300		<i>Caitlynn</i>				5-15-25		800					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 5/15/2025 10:00:45AM

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: 05/15/25 08:00 Work Order ID: E505165
Phone: (972) 371-5200 Date Logged In: 05/14/25 15:51 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/21/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling 223/224

Work Order: E505181

Job Number: 23003-0002

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/22/25

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: 5/22/25



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

Project Name: Charles Ling 223/224  
Workorder: E505181  
Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/22/25 14:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS37-0.5'	E505181-01A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS59-0.5'	E505181-02A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS61-3'	E505181-03A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS64-0.5'	E505181-04A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS70-1'	E505181-05A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS74-0.5'	E505181-06A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS86-0.5'	E505181-07A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS87-0.5'	E505181-08A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS88-0.5'	E505181-09A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS90-0.5'	E505181-10A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS91-0.5'	E505181-11A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS95-0.5'	E505181-12A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS96-0.5'	E505181-13A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS98-0.5'	E505181-14A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS85-0.5'	E505181-15A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS104-0.5'	E505181-16A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS107-0.5'	E505181-17A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS114-0.5'	E505181-18A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS116-0.5'	E505181-19A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS117-0.5'	E505181-20A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS37-0.5'**

**E505181-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.7 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	475	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	859	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2521010
Chloride	5320	100	5	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS59-0.5'**

**E505181-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.2 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	146	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	101	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		116 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	1820	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS61-3'**

**E505181-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.6 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	35.2	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		116 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	5730	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS64-0.5'**

**E505181-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.8 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		130 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	1030	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS70-1'**

**E505181-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	31.5	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	1000	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS74-0.5'**

**E505181-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.1 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	218	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	249	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		128 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	641	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS86-0.5'**

**E505181-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	<b>238</b>	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	<b>106</b>	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		122 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	<b>3170</b>	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS87-0.5'**

**E505181-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	290	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	147	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	4280	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS88-0.5'**

**E505181-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	144	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	96.3	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2521010
Chloride	2730	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS90-0.5'**

**E505181-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.1 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	44.8	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	3630	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS91-0.5'**

**E505181-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.2 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	<b>86.5</b>	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	<b>53.5</b>	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	<b>4240</b>	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS95-0.5'**

**E505181-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	167	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	201	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		122 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	3920	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS96-0.5'**

**E505181-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.8 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		116 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	5360	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS98-0.5'**

**E505181-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.8 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	105	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	66.7	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2521010
Chloride	1400	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS85-0.5'**

**E505181-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	426	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	304	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	5200	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS104-0.5'**

**E505181-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	184	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	141	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	5130	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS107-0.5'**

**E505181-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.0 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	92.8	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	3630	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS114-0.5'**

**E505181-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.2 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.3 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	136	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	93.9	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		118 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	1740	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS116-0.5'**

**E505181-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	96.3	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	51.5	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		121 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	5950	100	5	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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**FS117-0.5'**

**E505181-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.2 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2520116
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521020
Diesel Range Organics (C10-C28)	131	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	97.3	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		119 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521010
Chloride	3480	40.0	2	05/19/25	05/20/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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#### Volatile Organics by EPA 8021B

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 (2520116-BLK1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.57		8.00		82.1	70-130			

**LCS (2520116-BS1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	4.30	0.0250	5.00		86.0	70-130			
Ethylbenzene	4.22	0.0250	5.00		84.4	70-130			
Toluene	4.28	0.0250	5.00		85.5	70-130			
o-Xylene	4.19	0.0250	5.00		83.7	70-130			
p,m-Xylene	8.56	0.0500	10.0		85.6	70-130			
Total Xylenes	12.7	0.0250	15.0		85.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.9	70-130			

**Matrix Spike (2520116-MS1)**

Source: E505181-06

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	4.77	0.0250	5.00	ND	95.4	70-130			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	70-130			
Toluene	4.72	0.0250	5.00	ND	94.4	70-130			
o-Xylene	4.59	0.0250	5.00	ND	91.8	70-130			
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.94		8.00		86.8	70-130			

**Matrix Spike Dup (2520116-MSD1)**

Source: E505181-06

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	5.02	0.0250	5.00	ND	100	70-130	5.19	27	
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	70-130	5.54	26	
Toluene	4.97	0.0250	5.00	ND	99.4	70-130	5.23	20	
o-Xylene	4.83	0.0250	5.00	ND	96.7	70-130	5.12	25	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	70-130	5.43	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	70-130	5.33	26	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.0	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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#### 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 (2520116-BLK1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

**LCS (2520116-BS2)**

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

**Matrix Spike (2520116-MS2)**

Source: E505181-06

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			

**Matrix Spike Dup (2520116-MSD2)**

Source: E505181-06

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	1.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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#### 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 (2521020-BLK1)**

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.9		50.0		116	61-141			

**LCS (2521020-BS1)**

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	305	25.0	250		122	66-144			
Surrogate: <i>n</i> -Nonane	58.2		50.0		116	61-141			

**Matrix Spike (2521020-MS1)**

Source: E505181-05

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	336	25.0	250	31.5	122	56-156			
Surrogate: <i>n</i> -Nonane	58.0		50.0		116	61-141			

**Matrix Spike Dup (2521020-MSD1)**

Source: E505181-05

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	343	25.0	250	31.5	125	56-156	2.03	20	
Surrogate: <i>n</i> -Nonane	59.0		50.0		118	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:40:34PM
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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 (2521010-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride	ND	20.0							
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**LCS (2521010-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride	263	20.0	250		105	90-110			
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**Matrix Spike (2521010-MS1)**

Source: E505181-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride	5880	40.0	250	5730	61.4	80-120			M4
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**Matrix Spike Dup (2521010-MSD1)**

Source: E505181-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride	5910	40.0	250	5730	71.1	80-120	0.413	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/22/25 14:40
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505181		2303-0002					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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1051	05/14/2025	S	1	FS37-0.5'			1								X					
1056	05/14/2025	S	1	FS59-0.5'			2								X					
1058	05/14/2025	S	1	FS61-3'			3								X					
1105	05/14/2025	S	1	FS64-0.5'			4								X					
1257	05/14/2025	S	1	FS70-1'			5								X					
1242	05/14/2025	S	1	FS74-0.5'			6								X					
1048	05/14/2025	S	1	FS86-0.5'			7								X					
1055	05/14/2025	S	1	FS87-0.5'			8								X					
1205	05/14/2025	S	1	FS88-0.5'			9								X					
1047	05/14/2025	S	1	FS90-0.5'			10								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Jarad McCauley																				
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 on ice at a temp above 0 but less than 6°C on subsequent days.				
<i>Me</i>				5-15-25				<i>Michelle Gonzalez</i>				5-15-25		0711						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time						
<i>Michelle Gonzalez</i>				5-15-25		1600		<i>[Signature]</i>				5-15-25		1600						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
<i>[Signature]</i>				5-15-25		2215		<i>Carth Man</i>				5-16-25		830						
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.																				

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E305181		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	GR0/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1008 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1044	05/14/2025	S	1	FS 91-0.5'			11								X					
1037	05/14/2025	S	1	FS 95-0.5'			12								X					
1038	05/14/2025	S	1	FS 96-0.5'			13								X					
1040	05/14/2025	S	1	FS 98-0.5'			14								X					
1051	05/14/2025	S	1	FS 85-0.5'			15								X					
1044	05/14/2025	S	1	FS 104-0.5'			16								X					
1221	05/14/2025	S	1	FS 107-0.5'			17								X					
1159	05/14/2025	S	1	FS 114-0.5'			18								X					
1220	05/14/2025	S	1	FS 116-0.5'			19								X					
1108	05/14/2025	S	1	FS 117-0.5'			20								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Jarad McCauley																				
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 on ice at a temp above 0 but less than 6°C on subsequent days. <b>Lab Use Only</b> Received on ice: 0/N								
<i>[Signature]</i>		5-15-25				<i>Michelle Gonzalez</i>		5-15-25		0711										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
<i>Michelle Gonzalez</i>		5-15-25		1600		<i>[Signature]</i>		5-15-25		1600										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
<i>[Signature]</i>		5-15-25		2215		<i>Carth Moore</i>		5-16-25		830										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 5/19/2025 2:05:01PM

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: 05/16/25 08:30 Work Order ID: E505181
Phone: (972) 371-5200 Date Logged In: 05/15/25 15:15 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/22/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Project Charles Ling 223/224 has been separated into 2 reports. Wo are E505181 & E505182.

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: Charles Ling 223/224

Work Order: E505182

Job Number: 23003-0002

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/22/25

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.  
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/22/25

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



Project Name: Charles Ling 223/224  
Workorder: E505182  
Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/22/25 14:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS118-1'	E505182-01A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS119-1'	E505182-02A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS120-0.5'	E505182-03A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS123-1'	E505182-04A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS126-1'	E505182-05A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS128-0.5'	E505182-06A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS129-0.5'	E505182-07A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS131-0.5'	E505182-08A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS132-0.5'	E505182-09A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS133-0.5'	E505182-10A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS134-0.5'	E505182-11A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS135-0.5'	E505182-12A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
SW02-0-2'	E505182-13A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS118-1'**  
**E505182-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.1 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	40.0	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		128 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2521011
Chloride	1070	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS119-1'**

**E505182-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.1 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	37.0	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		131 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	2970	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS120-0.5'**

**E505182-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	338	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	389	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		119 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	2780	40.0	2	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS123-1'**

**E505182-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.1 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	<b>237</b>	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	<b>186</b>	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		125 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	<b>1120</b>	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS126-1'**

**E505182-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	84.1	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	83.5	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		126 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	921	20.0	1	05/19/25	05/19/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS128-0.5'**

**E505182-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.3 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	109	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	101	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		132 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	2730	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS129-0.5'**

**E505182-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/20/25	
Toluene	ND	0.0250	1	05/16/25	05/20/25	
o-Xylene	ND	0.0250	1	05/16/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %	70-130	05/16/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	<b>988</b>	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	<b>1820</b>	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		118 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	<b>614</b>	20.0	1	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS131-0.5'**

**E505182-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.1 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	486	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	728	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	4200	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS132-0.5'**

**E505182-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.2 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	499	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	376	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	2590	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS133-0.5'**

**E505182-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.9 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	27.6	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		125 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	3790	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS134-0.5'**

**E505182-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	279	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	99.6	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		124 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	5430	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**FS135-0.5'**

**E505182-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	220	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	80.6	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		118 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	3550	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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**SW02-0-2'**

**E505182-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Benzene	ND	0.0250	1	05/16/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/21/25	
Toluene	ND	0.0250	1	05/16/25	05/21/25	
o-Xylene	ND	0.0250	1	05/16/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2520117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.8 %	70-130	05/16/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2521025
Diesel Range Organics (C10-C28)	65.7	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		123 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521011
Chloride	148	20.0	1	05/19/25	05/20/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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#### Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2520117-BLK1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

**LCS (2520117-BS1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	4.46	0.0250	5.00		89.2	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.1	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.48	0.0250	5.00		89.7	70-130			
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130			
Total Xylenes	13.3	0.0250	15.0		88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

**Matrix Spike (2520117-MS1)**

Source: E505182-01

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	4.87	0.0250	5.00	ND	97.4	70-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130			
Toluene	4.87	0.0250	5.00	ND	97.5	70-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	70-130			
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

**Matrix Spike Dup (2520117-MSD1)**

Source: E505182-01

Prepared: 05/16/25 Analyzed: 05/20/25

Benzene	5.15	0.0250	5.00	ND	103	70-130	5.58	27	
Ethylbenzene	5.19	0.0250	5.00	ND	104	70-130	5.18	26	
Toluene	5.14	0.0250	5.00	ND	103	70-130	5.35	20	
o-Xylene	5.14	0.0250	5.00	ND	103	70-130	4.70	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	5.00	23	
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130	4.90	26	
Surrogate: 4-Bromochlorobenzene-PID	8.33		8.00		104	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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#### 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 (2520117-BLK1)**

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			

**LCS (2520117-BS2)**

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

**Matrix Spike (2520117-MS2)**

Source: E505182-01

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

**Matrix Spike Dup (2520117-MSD2)**

Source: E505182-01

Prepared: 05/16/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	1.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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#### 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 (2521025-BLK1)**

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	66.7		50.0		133	61-141			

**LCS (2521025-BS1)**

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	326	25.0	250		130	66-144			
Surrogate: n-Nonane	60.0		50.0		120	61-141			

**Matrix Spike (2521025-MS1)**

Source: E505180-22

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	344	25.0	250	ND	138	56-156			
Surrogate: n-Nonane	59.2		50.0		118	61-141			

**Matrix Spike Dup (2521025-MSD1)**

Source: E505180-22

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	386	25.0	250	ND	154	56-156	11.4	20	
Surrogate: n-Nonane	67.6		50.0		135	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/22/2025 2:28:50PM
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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 (2521011-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride ND 20.0

**LCS (2521011-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 261 20.0 250 104 90-110

**Matrix Spike (2521011-MS1)**

Source: E505182-04

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 1390 20.0 250 1120 106 80-120

**Matrix Spike Dup (2521011-MSD1)**

Source: E505182-04

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 1370 20.0 250 1120 101 80-120 0.860 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/22/25 14:28
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505182		23003002					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	TCEQ 105 - TX	RCRA 8 Metals	BELOC - NM	BELOC - TX	SDWA	CWA	RCRA	
1111	05/14/2025	S	1	FS118 - 1'			1								X					
1115	05/14/2025	S	1	FS119 - 1'			2								X					
1111	05/14/2025	S	1	FS120 - 0.5'			3								X					
1254	05/14/2025	S	1	FS123 - 1'			4								X					
1114	05/14/2025	S	1	FS126 - 1'			5								X					
1247	05/14/2025	S	1	FS128 - 0.5'			6								X					
1243	05/14/2025	S	1	FS129 - 0.5'			7								X					
1255	05/14/2025	S	1	FS131 - 0.5'			8								X					
1258	05/14/2025	S	1	FS132 - 0.5'			9								X					
1226	05/14/2025	S	1	FS133 - 0.5'			10								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Jarad McCauley																				
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 on ice at a temp above 0 but less than 6°C on subsequent days. <b>Lab Use Only</b> Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N				
<i>[Signature]</i>				5-15-25				<i>Michelle Gonzalez</i>				5-15-25		0711						
Michelle Gonzalez				5-15-25		1600		<i>[Signature]</i>				5-15-25		1600						
<i>[Signature]</i>				5-15-25		2215		<i>Carla Ma</i>				5-16-25		830						
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.																				

Released to Imaging: 9/17/2025 10:44:00 AM

Received by OCD: 8/29/2025 7:14:11 AM

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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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E505182		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	FIBER	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCOQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1215	05/14/2025	S	1	FS 134-0.5'			11								X					
1223	05/14/2025	S	1	FS 135-0.5'			12								X					
1309	05/14/2025	S	1	SW02-0-2'			13								X					
	05/14/2025	S	1	H60																
	05/14/2025	S	1	H6C																
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez, Jarad McCauley																				
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 on ice at a temp above 0 but less than 6°C on subsequent days.								
<i>[Signature]</i>				5-15-25		Michelle Gonzalez				5-15-25	0711									
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time									
<i>[Signature]</i>				5-15-25	1600	<i>[Signature]</i>				5-15-25	1600									
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	Lab Use Only Received on ice: O/N								
<i>[Signature]</i>				5-15-25	2215	Caitlin Man				5-16-25	830									
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time									
<i>[Signature]</i>						<i>[Signature]</i>														
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: 5/19/2025 2:12:30PM

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: 05/16/25 08:30 Work Order ID: E505182
Phone: (972) 371-5200 Date Logged In: 05/15/25 15:19 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/22/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Project Charles Ling 223/224 has been separated into 2 reports. Wo are E505181 & E505182.

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: Charles Ling 223/224

Work Order: E505193

Job Number: 23003-0002

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/23/25

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: 5/23/25



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

Project Name: Charles Ling 223/224  
Workorder: E505193  
Date Received: 5/19/2025 7:30:17AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

**Southern New Mexico Area**

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/23/25 08:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-1'	E505193-01A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:39:28AM
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**SW01 0-1'**  
**E505193-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.2 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2521012
Diesel Range Organics (C10-C28)	594	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	999	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	4290	40.0	2	05/19/25	05/20/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:39:28AM
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#### Volatile Organics by EPA 8021B

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 (2521004-BLK1)

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

#### LCS (2521004-BS1)

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	4.05	0.0250	5.00		81.0	70-130			
Ethylbenzene	4.13	0.0250	5.00		82.5	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.11	0.0250	5.00		82.3	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.5	0.0250	15.0		83.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.1	70-130			

#### Matrix Spike (2521004-MS1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.29	0.0250	5.00	ND	85.7	70-130			
Ethylbenzene	4.36	0.0250	5.00	ND	87.1	70-130			
Toluene	4.33	0.0250	5.00	ND	86.6	70-130			
o-Xylene	4.33	0.0250	5.00	ND	86.7	70-130			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	70-130			
Total Xylenes	13.2	0.0250	15.0	ND	87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

#### Matrix Spike Dup (2521004-MSD1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.41	0.0250	5.00	ND	88.2	70-130	2.93	27	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	70-130	3.79	26	
Toluene	4.47	0.0250	5.00	ND	89.5	70-130	3.26	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	70-130	3.95	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	3.78	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	3.84	26	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:39:28AM
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#### 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 (2521004-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		102	70-130			

**LCS (2521004-BS2)**

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

**Matrix Spike (2521004-MS2)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

**Matrix Spike Dup (2521004-MSD2)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	4.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:39:28AM
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#### 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 (2521012-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	65.5		50.0		131	61-141			

**LCS (2521012-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	294	25.0	250		118	66-144			
Surrogate: <i>n</i> -Nonane	55.2		50.0		110	61-141			

**Matrix Spike (2521012-MS1)**

Source: E505179-01

Prepared: 05/19/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	340	25.0	250	ND	136	56-156			
Surrogate: <i>n</i> -Nonane	62.9		50.0		126	61-141			

**Matrix Spike Dup (2521012-MSD1)**

Source: E505179-01

Prepared: 05/19/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	311	25.0	250	ND	124	56-156	8.76	20	
Surrogate: <i>n</i> -Nonane	56.3		50.0		113	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:39:28AM
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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 (2521017-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride ND 20.0

**LCS (2521017-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 264 20.0 250 106 90-110

**Matrix Spike (2521017-MS1)**

Source: E505196-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 3860 40.0 250 3700 67.3 80-120 M4

**Matrix Spike Dup (2521017-MSD1)**

Source: E505196-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 3640 40.0 250 3700 NR 80-120 5.97 20 M4

QC Summary Report Comment:

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



### Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/23/25 08:39
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				ES05193		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	TCEQ 1005 - TX	RCRA 8 Metals	BEGOC - NM	BEGOC - TX	SDWA	CWA	RCRA	
1030	05-15-25	S	1	Swol 0-1'			1								X					
		S	1												X					
		S	1												X					
		S	1												X					
		S	1												X					
		S	1												X					
		S	1												X					
		S	1												X					
		S	1												X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez																				
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 on ice at a temp above 0 but less than 6°C on subsequent days. <b>Lab Use Only</b> Received on ice: U N								
<i>[Signature]</i>		05-16-25		711		<i>Michelle Gonzalez</i>		5-16-25		0711										
<i>Michelle Gonzalez</i>		5-17-25		0230		<i>Caitlynn</i>		5-19-25		730										
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: 5/19/2025 10:09:47AM

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: 05/19/25 07:30 Work Order ID: E505193
Phone: (972) 371-5200 Date Logged In: 05/16/25 15:55 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/23/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling 223/224

Work Order: E505197

Job Number: 23003-0002

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/23/25

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: 5/23/25

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



Project Name: Charles Ling 223/224  
Workorder: E505197  
Date Received: 5/19/2025 7:30:17AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, under the Project Name: Charles Ling 223/224.

The analytical test results summarized in this report with the Project Name: Charles Ling 223/224 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/23/25 08:43
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01A-0'	E505197-01A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS60-0.5'	E505197-02A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS89-0.5'	E505197-03A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS93-0.5'	E505197-04A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS94-0.5'	E505197-05A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS105-0.5'	E505197-06A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.
FS106-0.5'	E505197-07A	Soil	05/15/25	05/19/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**SS01A-0'**

**E505197-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	196	20.0	1	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS60-0.5'**

**E505197-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	<b>290</b>	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	<b>134</b>	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	<b>5280</b>	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS89-0.5'**

**E505197-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	<b>240</b>	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	<b>144</b>	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	<b>1970</b>	20.0	1	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS93-0.5'**

**E505197-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	3270	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS94-0.5'**

**E505197-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	325	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	113	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	5130	40.0	2	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS105-0.5'**

**E505197-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	123	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	115	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	699	20.0	1	05/19/25	05/20/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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**FS106-0.5'**

**E505197-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2521004
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2521028
Diesel Range Organics (C10-C28)	35.2	25.0	1	05/19/25	05/21/25	
Oil Range Organics (C28-C36)	52.6	50.0	1	05/19/25	05/21/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/19/25	05/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2521017
Chloride	6000	100	5	05/19/25	05/20/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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#### Volatile Organics by EPA 8021B

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 (2521004-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

**LCS (2521004-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	4.05	0.0250	5.00		81.0	70-130			
Ethylbenzene	4.13	0.0250	5.00		82.5	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.11	0.0250	5.00		82.3	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.5	0.0250	15.0		83.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.1	70-130			

**Matrix Spike (2521004-MS1)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.29	0.0250	5.00	ND	85.7	70-130			
Ethylbenzene	4.36	0.0250	5.00	ND	87.1	70-130			
Toluene	4.33	0.0250	5.00	ND	86.6	70-130			
o-Xylene	4.33	0.0250	5.00	ND	86.7	70-130			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	70-130			
Total Xylenes	13.2	0.0250	15.0	ND	87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

**Matrix Spike Dup (2521004-MSD1)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.41	0.0250	5.00	ND	88.2	70-130	2.93	27	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	70-130	3.79	26	
Toluene	4.47	0.0250	5.00	ND	89.5	70-130	3.26	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	70-130	3.95	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	3.78	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	3.84	26	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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#### 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 (2521004-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		102	70-130			

**LCS (2521004-BS2)**

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

**Matrix Spike (2521004-MS2)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

**Matrix Spike Dup (2521004-MSD2)**

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	4.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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#### 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 (2521028-BLK1)**

Prepared: 05/19/25 Analyzed: 05/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	61-141			

**LCS (2521028-BS1)**

Prepared: 05/19/25 Analyzed: 05/21/25

Diesel Range Organics (C10-C28)	270	25.0	250		108	66-144			
Surrogate: n-Nonane	51.7		50.0		103	61-141			

**Matrix Spike (2521028-MS1)**

Source: E505197-04

Prepared: 05/19/25 Analyzed: 05/21/25

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	52.4		50.0		105	61-141			

**Matrix Spike Dup (2521028-MSD1)**

Source: E505197-04

Prepared: 05/19/25 Analyzed: 05/21/25

Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	56-156	7.70	20	
Surrogate: n-Nonane	52.0		50.0		104	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 5/23/2025 8:43:43AM
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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 (2521017-BLK1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride ND 20.0

**LCS (2521017-BS1)**

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 264 20.0 250 106 90-110

**Matrix Spike (2521017-MS1)**

Source: E505196-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 3860 40.0 250 3700 67.3 80-120 M4

**Matrix Spike Dup (2521017-MSD1)**

Source: E505196-03

Prepared: 05/19/25 Analyzed: 05/19/25

Chloride 3640 40.0 250 3700 NR 80-120 5.97 20 M4

QC Summary Report Comment:

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



### Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 223/224 Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 05/23/25 08:43
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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 Name: Charles Ling 223/224				Address: 3122 National Parks Hwy				E005197		23003002					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	TCEQ 106 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
1329	5-15-25	S	1	SS07a - 0'			1								X						
1119		S	1	FS60 - 0.5'			2								X						
1109		S	1	FS89 - 0.5'			3								X						
1122		S	1	FS93 - 0.5'			4								X						
1128		S	1	FS94 - 0.5'			5								X						
1125		S	1	FS105 - 0.5'			6								X						
1124		S	1	FS106 - 0.5'			7								X						
		S	1												X						
		S	1												X						
		S	1												X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Higinio Gonzalez																					
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 on ice at a temp above 0 but less than 6°C on subsequent days.					
<i>Higinio Gonzalez</i>				5-16-25		711		<i>Michelle Gonzalez</i>				5-16-25		0711							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
<i>Michelle Gonzalez</i>				5-17-25		0230		<i>Christy Harv</i>				5-19-25		730							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
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:					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		☐/N					
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: 5/19/2025 10:14:47AM

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: 05/19/25 07:30 Work Order ID: E505197
Phone: (972) 371-5200 Date Logged In: 05/16/25 16:04 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/23/25 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Charles Ling 224/223 Well Pad

Work Order: E506016

Job Number: 23003-0002

Received: 6/4/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/11/25

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: 6/11/25

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



Project Name: Charles Ling 224/223 Well Pad  
Workorder: E506016  
Date Received: 6/4/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/4/2025 7:30:00AM, under the Project Name: Charles Ling 224/223 Well Pad.

The analytical test results summarized in this report with the Project Name: Charles Ling 224/223 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/11/25 14:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS63-1'	E506016-01A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.
FS92-1'	E506016-02A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.
FS129-1'	E506016-03A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.
FS130-1'	E506016-04A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.
FS146-2'	E506016-05A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.
FS148-1'	E506016-06A	Soil	06/02/25	06/04/25	Glass Jar, 2 oz.



Case Narrative:

Project Name: Charles Ling 224/223 Well Pad

Workorder:E506016

Date Received: 06/04/25 07:30

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
FS129-1'	E506016-03A	DRO/ORO By 8015

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS63-1'**

**E506016-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2523073	
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2523073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2523100	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/06/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	06/02/25	06/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2523088	
Chloride	9330	200	10	06/03/25	06/04/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS92-1'**

**E506016-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2523100
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/06/25	
<i>Surrogate: n-Nonane</i>		118 %	61-141	06/02/25	06/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2523088
Chloride	1780	40.0	2	06/03/25	06/04/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS129-1'**

**E506016-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2524025
Diesel Range Organics (C10-C28)	725	25.0	1	06/02/25	06/10/25	
Oil Range Organics (C28-C36)	1380	50.0	1	06/02/25	06/10/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	06/02/25	06/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2523088
Chloride	2460	40.0	2	06/03/25	06/04/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS130-1'**

**E506016-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2523100
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/06/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	06/02/25	06/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2523088
Chloride	6350	100	5	06/03/25	06/04/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS146-2'**

**E506016-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2523073
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2523073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: HM		Batch: 2523100
Diesel Range Organics (C10-C28)	37.9	25.0	1	06/02/25	06/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/06/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	06/02/25	06/06/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: JM		Batch: 2523088
Chloride	98.0	20.0	1	06/03/25	06/04/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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**FS148-1'**

**E506016-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Benzene	ND	0.0250	1	06/03/25	06/05/25	
Ethylbenzene	ND	0.0250	1	06/03/25	06/05/25	
Toluene	ND	0.0250	1	06/03/25	06/05/25	
o-Xylene	ND	0.0250	1	06/03/25	06/05/25	
p,m-Xylene	ND	0.0500	1	06/03/25	06/05/25	
Total Xylenes	ND	0.0250	1	06/03/25	06/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2523073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/25	06/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	06/03/25	06/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2523100
Diesel Range Organics (C10-C28)	43.8	25.0	1	06/02/25	06/06/25	
Oil Range Organics (C28-C36)	67.0	50.0	1	06/02/25	06/06/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	06/02/25	06/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2523088
Chloride	887	20.0	1	06/03/25	06/04/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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 (2523073-BLK1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

**LCS (2523073-BS1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Benzene	4.85	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.9	70-130			
Toluene	4.88	0.0250	5.00		97.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

**Matrix Spike (2523073-MS1)**

Source: E506010-02

Prepared: 06/03/25 Analyzed: 06/04/25

Benzene	4.77	0.0250	5.00	ND	95.3	70-130			
Ethylbenzene	4.80	0.0250	5.00	ND	95.9	70-130			
Toluene	4.79	0.0250	5.00	ND	95.9	70-130			
o-Xylene	4.77	0.0250	5.00	ND	95.3	70-130			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	70-130			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			

**Matrix Spike Dup (2523073-MSD1)**

Source: E506010-02

Prepared: 06/03/25 Analyzed: 06/04/25

Benzene	4.73	0.0250	5.00	ND	94.5	70-130	0.831	27	
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	70-130	1.10	26	
Toluene	4.80	0.0250	5.00	ND	95.9	70-130	0.0167	20	
o-Xylene	4.82	0.0250	5.00	ND	96.4	70-130	1.07	25	
p,m-Xylene	9.85	0.0500	10.0	ND	98.5	70-130	1.08	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.8	70-130	1.08	26	
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2523073-BLK1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			

**LCS (2523073-BS2)**

Prepared: 06/03/25 Analyzed: 06/04/25

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

**Matrix Spike (2523073-MS2)**

Source: E506010-02

Prepared: 06/03/25 Analyzed: 06/04/25

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.72		8.00		109	70-130			

**Matrix Spike Dup (2523073-MSD2)**

Source: E506010-02

Prepared: 06/03/25 Analyzed: 06/04/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130	7.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2523100-BLK1)**

Prepared: 06/05/25 Analyzed: 06/05/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	56.9		50.0		114	61-141			

**LCS (2523100-BS1)**

Prepared: 06/05/25 Analyzed: 06/05/25

Diesel Range Organics (C10-C28)	284	25.0	250		114	66-144			
Surrogate: <i>n</i> -Nonane	54.4		50.0		109	61-141			

**Matrix Spike (2523100-MS1)**

Source: E505335-03RE1

Prepared: 06/05/25 Analyzed: 06/05/25

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156			
Surrogate: <i>n</i> -Nonane	57.8		50.0		116	61-141			

**Matrix Spike Dup (2523100-MSD1)**

Source: E505335-03RE1

Prepared: 06/05/25 Analyzed: 06/05/25

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156	0.663	20	
Surrogate: <i>n</i> -Nonane	54.4		50.0		109	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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#### 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 (2524025-BLK1)**

Prepared: 06/09/25 Analyzed: 06/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.0		50.0		97.9	61-141			

**LCS (2524025-BS1)**

Prepared: 06/09/25 Analyzed: 06/10/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	49.7		50.0		99.4	61-141			

**Matrix Spike (2524025-MS1)**

Source: E506042-05

Prepared: 06/09/25 Analyzed: 06/10/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: <i>n</i> -Nonane	50.4		50.0		101	61-141			

**Matrix Spike Dup (2524025-MSD1)**

Source: E506042-05

Prepared: 06/09/25 Analyzed: 06/10/25

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	1.88	20	
Surrogate: <i>n</i> -Nonane	49.3		50.0		98.7	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 6/11/2025 2:52:59PM
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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 (2523088-BLK1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Chloride ND 20.0

**LCS (2523088-BS1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Chloride 254 20.0 250 102 90-110

**Matrix Spike (2523088-MS1)**

Source: E506009-21

Prepared: 06/03/25 Analyzed: 06/04/25

Chloride 255 20.0 250 ND 102 80-120

**Matrix Spike Dup (2523088-MSD1)**

Source: E506009-21

Prepared: 06/03/25 Analyzed: 06/04/25

Chloride 254 20.0 250 ND 102 80-120 0.342 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Charles Ling 224/223 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 06/11/25 14:52
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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.



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Charles Ling 224/223 Well Pad				Address: 3122 National Parks Hwy				E5cd0010		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																			

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	TCEQ 1005 - TX	PCDA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
1017	06-02-25	S	1	FS63-1'		1								X						
1029	↓	↓	↓	FS92-1'		2								X						
1157	↓	↓	↓	FS129-1'		3								X						
1119	↓	↓	↓	FS130-1'		4								X						
1005	↓	↓	↓	FS146-2'		5								X						
1117	↓	↓	↓	FS148-1'		6								X						

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com

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

Sampled by: <u>Jacob McCauley, Janna Hinkle</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.  <b>Lab Use Only</b> Received on ice: (X) N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>JH</i>	06-03-25		<i>Michelle Gonzales</i>	6-3-25	1045						
<i>Michelle Gonzales</i>	6-3-25	1600	<i>John Jb.</i>	6-3-25	1600						
<i>John Jb.</i>	6-3-25	2200	<i>Caitlin Mann</i>	6-4-25	730						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

### Envirotech Analytical Laboratory

Printed: 6/4/2025 8:17:43AM

#### 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: 06/04/25 07:30	Work Order ID: E506016
Phone: (972) 371-5200	Date Logged In: 06/03/25 14:28	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 06/10/25 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

Carrier: Courier

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

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

#### 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.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# E550010				Job Number 230030002				1D 2D 3D Std				NM CO UT TX			
Project Name: Charles Ling 224/223 Well Pad				Address: 3122 National Parks Hwy												<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							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCED 1005 - TX	RCRA 8 Metals	BDOC - NM	BDOC - TX	SDWA	CWA	RCRA	Compliance	Y	or	N	
1017	06-02-25	S	1	FS63-1'		1								X									
1029				FS92-1'		2								X									
1157				FS129-1'		3	X							X									
1119				FS130-1'		4								X									
1005				FS146-2'		5								X									
1117	✓	✓	✓	FS148-1'		6								X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, hinkle@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>Jared McCauley, Janna Hinkle</u>																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. <b>Lab Use Only</b> Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																	
<i>J. Hinkle</i>	06-03-25		Michelle Gonzales	6-3-25	1045																		
Michelle Gonzales	6-3-25	1600	J. Hinkle	6-3-25	1600																		
J. Hinkle	6-3-25	2200	Cristina Mauer	6-4-25	130																		
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.																							



## APPENDIX E

### NMOCD Correspondence

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**From:** [SLO Spills](#)  
**To:** [Ashley Giovengo](#); [SLO Spills](#); [Jason Touchet](#); [Arsenio Jones](#)  
**Cc:** [Chad Hamilton](#); [Cole Burton](#)  
**Subject:** RE: Notice of Release - Matador Production Company - Charles Ling 224 Well Pad - Incident Number nAPP2501442555  
**Date:** Thursday, January 16, 2025 10:43:47 AM  
**Attachments:** [image006.png](#)  
[image010.png](#)  
[image011.png](#)  
[image012.png](#)  
[image002.png](#)

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

Thank you for notifying the NMSLO Environmental Compliance Office (ECO) of the incident or release noted in the subject line above and the potential impact to State Trust Land. Once the release is stopped and contained, your cooperation in completing the subsequent remediation tasks is appreciated:

1. Identify compliance requirements for the Cultural Properties Protection (CPP) Rule.
2. Identify avoidance, minimization, or mitigation measures for impact to any biologically sensitive areas.
3. Apply for a Right of Entry (ROE) for Remediation if any part of the remediation occurs off of the active lease of the responsible party. A site delineation plan and reclamation plan are required for the ROE application. (<https://www.nmstatelands.org/resources/forms-and-applications/>)
4. If the remediation closure report is not submitted within 90 days of discovery of the release, a site delineation plan must be submitted to [eco@nmslo.gov](mailto:eco@nmslo.gov) for review and approval. (If delineation and remediation happen concurrently, a remediation plan must be submitted to [eco@nmslo.gov](mailto:eco@nmslo.gov) in place of a site delineation plan.)
5. Subsequent reports that must be submitted to ECO include:
  - **remediation plan;**
  - **reclamation plan, if applicable; or**
  - **remediation with reclamation plan;**
  - **remediation closure report; or**
  - **remediation closure report with reclamation activities report;**
  - **reclamation activities report;**
  - **final reclamation report, if applicable.**

#### **SAMPLING NOTIFICATIONS**

Written notification of the confirmation sampling event must be submitted to ECO a minimum of two (2) business days before the sampling event, or as directed by ECO. Please submit notifications to [eco@nmslo.gov](mailto:eco@nmslo.gov) with the subject line as follows: **(Sampling Notification) Company-Location Name (API/Incident #)-Date of Incident.**

#### **NMSLO RESOURCES**

- RIGHT OF ENTRY FORMS: Rights of Way Forms - <https://www.nmstatelands.org/resources/forms-and-applications/>
- ECO GUIDANCE DOCUMENTS: Environmental Compliance Office - <https://www.nmstatelands.org/resources/forms-and-applications/> (PENDING)

- LEASE STATUS MAP: <https://mapservice.nmstatelands.org/LandStatus/>
- NMSLO OIL & GAS MANUAL: <https://www.nmstatelands.org/wp-content/uploads/2023/07/Oil-and-Gas-Manual-2023- WEB.pdf>
- NMSLO LEASE SEARCH: <https://secure.slo.state.nm.us/Applications/SLOConnect/>

**CULTURAL PROPERTIES PROTECTION RULE (19.2.24 NMAC) FOR REMEDIATION AND RECLAMATION ACTIVITIES**

- A. As soon as possible, when a new release or damage occurs on STL, contact a Cultural Resource Consultant who will:
1. Conduct an Archaeological Records Management System (ARMS) review to determine if any known cultural properties have been previously identified within the remediation area and if the area has been surveyed for cultural resources.
  2. Advise as to whether an archaeological monitor should be present during initial containment activities and subsequent remediation efforts.
  3. Advise as to whether a full cultural properties survey will be required after containment and before full remediation.
- B. A list of cultural resource consultants permitted to conduct work on state lands is maintained here: <https://www.nhistoricpreservation.org/programs/permits.html>.
- C. To learn more about NMSLO's Cultural Properties Protection Rule visit: <https://www.nmstatelands.org/divisions/cultural-resources-office/culturalproperties/>. CRO can be contacted via email at [croinfo@nmslo.gov](mailto:croinfo@nmslo.gov) or call 505-827-5781.

**BIOLOGICAL COMPLIANCE & REPORTING**

ECO recommends utilizing the resources below to determine if the site activities are occurring in a sensitive or restricted area. Also, when additional assistance is needed, ECO recommends consulting with a qualified third-party biologist for evaluation of potential impacts to threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, cave and karst features, and sensitive soils before conducting remediation and reclamation activities.

**BIOLOGICAL COMPLIANCE RESOURCES**

- New Mexico State Land Office Land Status Map <https://mapservice.nmstatelands.org/LandStatus>
- U.S. Fish and Wildlife Services Information for Planning and Consultation: <https://ipac.ecosphere.fws.gov/>
- BISON-M database: <https://bison-m.org/>
- New Mexico Department of Game and Fish Environmental Review Tool (ERT): <https://nmert.org/content/map>
- Open Enviro Map Wetlands: <https://gis.web.env.nm.gov/oem/?map=wetlands>

Thank you for working with ECO, and your efforts to protect State Trust Land.

**Environmental Compliance Office**  
**Surface Resources Division**

[eco@nmslo.gov](mailto:eco@nmslo.gov)  
[nmstatelands.org](http://nmstatelands.org)

.....

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---

**From:** Ashley Giovengo <agiovengo@ensolum.com>  
**Sent:** Wednesday, January 15, 2025 9:48 AM  
**To:** SLO Spills <spills@nmslo.gov>; Griffin, Becky R. <bgriffin@nmslo.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] Notice of Release - Matador Production Company - Charles Ling 224 Well Pad - Incident Number nAPP2501442555

Good Morning,

Please see the attached Spill and Release Notification Form for the produced water release at the Charles Ling 224 Well Pad. Please let me know if you have any questions.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Chad Hamilton](#); [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [Arsenio Jones](#)  
**Cc:** [Ashley Giovengo](#); [Cole Burton](#); [Bilkis Moir](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Extension Request - Charles Ling 224 Well Pad - nAPP2501442555  
**Date:** Thursday, April 10, 2025 8:58:17 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Good morning Chad,

The extension request for NAPP2501442555 CHARLES LING 224 WELL PAD is approved. The new due date to submit your updated remediation plan or closure report to the OCD is July 9, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Chad Hamilton <chamilton@ensolum.com>  
**Sent:** Thursday, April 10, 2025 8:36 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [Arsenio Jones](mailto:Arsenio Jones) <arsenio.jones@matadorresources.com>  
**Cc:** [Ashley Giovengo](mailto:ashleygiovengo@ensolum.com) <ashleygiovengo@ensolum.com>; [Cole Burton](mailto:coleburton@ensolum.com) <coleburton@ensolum.com>; [Bilkis Moir](mailto:bilkis@ensolum.com) <bmoir@ensolum.com>  
**Subject:** [EXTERNAL] Extension Request - Charles Ling 224 Well Pad - nAPP2501442555

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 April 12, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Charles Ling 224 Well Pad (Site) (Incident Number nAPP2501442555). The release occurred on January 13, 2025, and approximately 47 barrels (bbls) of produced water were released from an equipment error during fracking operations onto the caliche pad; approximately 6 bbls of produced water were recovered. Ensolum personnel attempted vertical delineation soil sampling within the release extent with a backhoe to a terminal depth of 6.5 feet bgs on March 12, 2025, however due to the lithology of the soil being indurated caliche, the backhoe was not able to penetrate the rock, and the borehole could not be advanced further. On April 4, 2025, Matador contracted Aspen General Contracting (Aspen) to advance the boreholes (BH02 and BH05) within the release extent with a geoprobe rig on tracks. Aspen was unable to advance the borehole to further than the depth already achieved utilizing the backhoe. Ensolum personnel collected discrete delineation soil samples from boreholes BH02 and BH05 at depth of 6 feet bgs and 6.5 bgs, respectively, however concentrations of chloride exceeded the strictest Closure Criteria per NMOCD Table I at that depth. Matador intends to return to the Site in order to advance boreholes BH02 and BH05 in accordance with the strictest Closure Criteria and respectfully requests a 90-day extension until July 09, 2025. Matador intends to complete remediation of the subject matter release to the maximum extent possible (MEP) and to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



**Chad Hamilton**

Project Geologist

940-923-0072

**Ensolum, LLC**

in f 

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [Jason Touchet](#); [Arsenio Jones](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Confirmation Sampling Variance - Charles Ling #224 Well Pad - Incident Number nAPP2501442555  
**Date:** Wednesday, April 30, 2025 8:57:50 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

---

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

Hi Ashley,

Your variance request to collect confirmation floor samples at a frequency of every 400 sq. ft. from the base of the excavation and every 200 sq. ft. from the sidewalls of the excavation is approved. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Tuesday, April 29, 2025 11:44 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Arsenio Jones <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Confirmation Sampling Variance - Charles Ling #224 Well Pad - Incident Number nAPP2501442555

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

Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Charles Ling #224 Well Pad (Site). On January 13, 2025, human error resulted in the release of approximately 47 barrels (bbls) of produced water onto the caliche pad; 6 bbls of produced water were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on January 14, 2025, and subsequently the release was assigned (Incident Number nAPP2501442555). The release impacted an area approximately 31,785 square feet (sq. ft.) in size on State Trust Land managed by the New Mexico State Land Office (NMSLO); the entire release remained on-pad. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, C-04753-POD1, located within a half-mile radius of the Site. The well had a reported depth to groundwater greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. A desktop review for potential site receptors has been completed for this Site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a fresh water emergent wetland located approximately 0.33 miles southwest of the Site. The Site is not underlain by unstable geology (low potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000 mg/kg TPH – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO), 2,500 mg/kg Total TPH and 10,000 mg/kg chloride.

A 90-day extension request was granted by the NMOCD on April 10, 2025, in order for Ensolum to complete vertical delineation soil sampling activities at the Site. A 90-day extension request was also granted by the Environmental Compliance Office (ECO) on April 17, 2025. Ensolum completed lateral and vertical delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I (see Table 1 and Table 1-CONT'D) on April 16, 2025. Matador would like to request a confirmation sampling variance for excavation floor samples collected every 400 sq. ft. from the floor of the excavation and every 200 sq. ft. from the sidewalls of the excavation where applicable. Matador is scheduled to begin confirmation soil sampling activities at the Site on May 07, 2025, and intends to remove any impacts that exceed the Site Closure Criteria via mechanical equipment. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the size of the impacted area, and a regional depth to groundwater greater than 55 ft bgs, Matador believes this *variance request* will provide equal or better protection of public health, the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2501442555).

Thanks,



**Ashley Giovengo**  
Associate Principal  
575-988-0055  
**Ensolum, LLC**  
**in f X**

“Your authenticity is your superpower.” – Unknown

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Arsenio Jones](#); [Ashley Giovengo](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 224 Well Pad (nAPP2501442555)  
January 13, 2025  
**Date:** Friday, May 2, 2025 4:36:14 PM

---

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

Greetings

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charle Ling 224 Well Pad (Site) (Incident Number nAPP2501442555). The release occurred on January 13, 2025, and approximately 47 barrels (bbls) of produced were released on pad.

Sampling will be conducted Wednesday 05/7/2025 through Friday 5/9/2025 and will commence at 09:00 MST. The Site is located in Unit A, Section 02, Township 24S, Range 33E (32.25347,-103.53718). Approximately 80 confirmation floor samples will be collected from an excavation extent measuring 31,785 sq. ft.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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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 458164

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458164
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 458164

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458164
	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.	5/2/2025

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

QUESTIONS

Action 458167

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458167
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 458167

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458167
	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.	5/2/2025

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

QUESTIONS

Action 458170

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458170
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 458170

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458170
	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.	5/2/2025

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Arsenio Jones](#); [Ashley Giovengo](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 224 Well Pad (nAPP2501442555)-01-13-2025  
**Date:** Thursday, May 8, 2025 9:33:42 AM

---

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

Greetings

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charle Ling 224 Well Pad (Site) (Incident Number nAPP2501442555). The release occurred on January 13, 2025, and approximately 47 barrels (bbls) of produced were released on pad. Confirmation soil sampling will be conducted Monday May 12, 2025, through Wednesday May 14, 2025, and will commence at 09:00 AM MST. The Site is located in Unit A, Section 02, Township 24S, Range 33E (32.25347,-103.53718). Approximately 80 confirmation floor samples will be collected from an excavation extent measuring 31,785 square feet.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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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 459825

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459825
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/12/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	(32.25347,-103.53718)

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 459825

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459825
	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.	5/7/2025

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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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 459828

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459828
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

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

CONDITIONS

Action 459828

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459828
	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.	5/7/2025

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 459829

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459829
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS

Action 459829

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459829
	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.	5/7/2025

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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 460824

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460824
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	31,785
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 460824

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460824
	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.	5/12/2025

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Ashley Giovengo](#); [Arsenio Jones](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 224 Well Pad (nAPP2501442555)-01-13-2025  
**Date:** Tuesday, May 27, 2025 1:24:57 PM

---

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

Greetings

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charle Ling 224 Well Pad (Site) (Incident Number nAPP2501442555). The release occurred on January 13, 2025, and approximately 47 barrels (bbls) of produced were released on pad. Confirmation soil sampling will be conducted Monday June 2, 2025, and will commence at 09:00 AM MST. The Site is in Unit A, Section 02, Township 24S, Range 33E (32.25347,-103.53718). Approximately 6 confirmation floor samples will be collected from an excavation extent measuring 2,400 square feet.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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Phone: (505) 629-6116

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

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

QUESTIONS

Action 467546

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467546
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501442555
Incident Name	NAPP2501442555 CHARLES LING 224 WELL PAD @ 30-025-52943
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-52943] CHARLES LING 0214 FEDERAL COM #224H

<b>Location of Release Source</b>	
Site Name	CHARLES LING 224 WELL PAD
Date Release Discovered	01/13/2024
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,400
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/02/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jenna Hinkle (510) 417-5262
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 467546

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467546
	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.	5/27/2025

**From:** [SLO Spills](#)  
**To:** [Jason Touchet](#); [SLO Spills](#)  
**Cc:** [Casey Snow](#); [Ashley Giovengo](#); [Ashley Giovengo](#)  
**Subject:** RE: Release Notification - Matador - Charles Ling 223H well Pad - nAPP2505848368  
**Date:** Monday, March 3, 2025 12:44:04 PM  
**Attachments:** [image002.png](#)  
[image006.png](#)

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

Thank you for notifying the NMSLO Environmental Compliance Office (ECO) of the incident or release noted in the subject line above and the potential impact to State Trust Land. Once the release is stopped and contained, your cooperation in completing the subsequent remediation tasks is appreciated:

1. Identify compliance requirements for the Cultural Properties Protection (CPP) Rule.
2. Identify avoidance, minimization, or mitigation measures for impact to any biologically sensitive areas.
3. Apply for a Right of Entry (ROE) for Remediation if any part of the remediation occurs off of the active lease of the responsible party. A site delineation plan and reclamation plan are required for the ROE application. (<https://www.nmstatelands.org/resources/forms-and-applications/>)
4. If the remediation closure report is not submitted within 90 days of discovery of the release, a site delineation plan must be submitted to [eco@nmslo.gov](mailto:eco@nmslo.gov) for review and approval. (If delineation and remediation happen concurrently, a remediation plan must be submitted to [eco@nmslo.gov](mailto:eco@nmslo.gov) in place of a site delineation plan.)
5. Subsequent reports that must be submitted to ECO include:
  - **remediation plan;**
  - **reclamation plan, if applicable; or**
  - **remediation with reclamation plan;**
  - **remediation closure report; or**
  - **remediation closure report with reclamation activities report;**
  - **reclamation activities report;**
  - **final reclamation report, if applicable.**

#### **SAMPLING NOTIFICATIONS**

Written notification of the confirmation sampling event must be submitted to ECO a minimum of two (2) business days before the sampling event, or as directed by ECO. Please submit notifications to [eco@nmslo.gov](mailto:eco@nmslo.gov) with the subject line as follows: **(Sampling Notification) Company-Location Name (API/Incident #)-Date of Incident.**

#### **NMSLO RESOURCES**

- RIGHT OF ENTRY FORMS: Rights of Way Forms - <https://www.nmstatelands.org/resources/forms-and-applications/>
- ECO GUIDANCE DOCUMENTS: Environmental Compliance Office - <https://www.nmstatelands.org/resources/forms-and-applications/> (PENDING)
- LEASE STATUS MAP: <https://mapservice.nmstatelands.org/LandStatus/>
- NMSLO OIL & GAS MANUAL: <https://www.nmstatelands.org/wp-content/uploads/2023/07/Oil-and->

Gas-Manual-2023- WEB.pdf

- NMSLO LEASE SEARCH: <https://secure.slo.state.nm.us/Applications/SLOConnect/>

**CULTURAL PROPERTIES PROTECTION RULE (19.2.24 NMAC) FOR REMEDIATION AND RECLAMATION ACTIVITIES**

- A. As soon as possible, when a new release or damage occurs on STL, contact a Cultural Resource Consultant who will:
1. Conduct an Archaeological Records Management System (ARMS) review to determine if any known cultural properties have been previously identified within the remediation area and if the area has been surveyed for cultural resources.
  2. Advise as to whether an archaeological monitor should be present during initial containment activities and subsequent remediation efforts.
  3. Advise as to whether a full cultural properties survey will be required after containment and before full remediation.
- B. A list of cultural resource consultants permitted to conduct work on state lands is maintained here: <https://www.nhistoricpreservation.org/programs/permits.html>.
- C. To learn more about NMSLO's Cultural Properties Protection Rule visit: <https://www.nmstatelands.org/divisions/cultural-resources-office/culturalproperties/>. CRO can be contacted via email at [croinfo@nmslo.gov](mailto:croinfo@nmslo.gov) or call 505-827-5781.

**BIOLOGICAL COMPLIANCE & REPORTING**

ECO recommends utilizing the resources below to determine if the site activities are occurring in a sensitive or restricted area. Also, when additional assistance is needed, ECO recommends consulting with a qualified third-party biologist for evaluation of potential impacts to threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, cave and karst features, and sensitive soils before conducting remediation and reclamation activities.

**BIOLOGICAL COMPLIANCE RESOURCES**

- New Mexico State Land Office Land Status Map <https://mapservice.nmstatelands.org/LandStatus>
- U.S. Fish and Wildlife Services Information for Planning and Consultation: <https://ipac.ecosphere.fws.gov/>
- BISON-M database: <https://bison-m.org/>
- New Mexico Department of Game and Fish Environmental Review Tool (ERT): <https://nmert.org/content/map>
- Open Enviro Map Wetlands: <https://gis.web.env.nm.gov/oem/?map=wetlands>

Thank you for working with ECO, and your efforts to protect State Trust Land.

**Environmental Compliance Office**  
**Surface Resources Division**  
[eco@nmslo.gov](mailto:eco@nmslo.gov)  
[nmstatelands.org](http://nmstatelands.org)  
.....

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---

**From:** Jason Touchet <jason.touchet@matadorresources.com>  
**Sent:** Thursday, February 27, 2025 3:18 PM  
**To:** SLO Spills <spills@nmslo.gov>  
**Cc:** Casey Snow <CSnow@matadorresources.com>; Ashley Giovengo (agiovengo@ensolum.com) <agiovengo@ensolum.com>; Ashley Giovengo (agiovengo@ensolum.com) <agiovengo@ensolum.com>  
**Subject:** [EXTERNAL] Release Notification - Matador - Charles Ling 223H well Pad - nAPP2505848368

Greetings,

Please see the details below for the release at the Charles Ling 223H well Pad.

**Company:** Matador Production Company

**Location:** Charles Ling 223H well pad

**Incident Number:** nAPP2505848368

**GPS Coordinates:** 32.25319, -103.53766

**ULSTR:** L-02-24S-33E

**County:** Lea, NM

**Spill Description:** An unexpected release was caused by the over pressure of a flowline release of approximately 17 bbls of produced water remained on the well pad. The release impacted 7,101 sq.ft of saturated soil on pad and lightly misted an area of 20,454 sq.ft on pad for a total of 27,555 sq.ft on pad. Attached are pictures of the release.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Chad Hamilton](#); [Wells, Shelly, EMNRD](#); [Jason Touchet](#); [Arsenio Jones](#)  
**Cc:** [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Extension Request - Matador Production Company - Charles Ling 223H Well Pad - Incident Number nAPP2505848368  
**Date:** Tuesday, May 27, 2025 11:53:49 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Hi Chad,

The extension request for NAPP2505848368 CHARLES LING 223H WELL PAD is approved. The new due date to submit your updated remediation plan or closure report to the OCD is August 25, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Chad Hamilton <chamilton@ensolum.com>  
**Sent:** Tuesday, May 27, 2025 11:24 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>  
**Cc:** Ashley Giovengo <agiovengo@ensolum.com>  
**Subject:** [EXTERNAL] Extension Request - Matador Production Company - Charles Ling 223H Well Pad - Incident Number nAPP2505848368

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 May 28, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Charles Ling 223H Well Pad (Site) (Incident Number nAPP2505848368). The release occurred on February 27, 2025, and approximately 17 barrels (bbls) of produced water were released from an equipment error during fracking operations onto the caliche pad; no produced water was recovered. Ensolum personnel have completed vertical and lateral delineation soil sampling within and around the release extent with a hand auger, backhoe, and a Geoprobe<sup>®</sup> 7822DT direct-push technology (DPT) rig. Ensolum personnel collected discrete delineation soil samples from boreholes BH01 through BH05 at depths ranging from 1-foot bgs to 14 bgs, respectively. Matador intends to return to the Site in order to complete excavation activities in accordance with the Site Closure Criteria and respectfully requests a 90-day extension until August 25, 2025. Matador intends to complete remediation of the subject matter release and submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



**Chad Hamilton**

Project Geologist

940-923-0072

**Ensolum, LLC**

in f 

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [Jason Touchet](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Confirmation Sampling Variance - Charles Ling #223 Well Pad - Incident Number nAPP2505848368  
**Date:** Wednesday, April 30, 2025 8:59:20 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

---

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

Hi Ashley,

Your variance request to collect confirmation floor samples at a frequency of every 400 sq. ft. from the base of the excavation and every 200 sq. ft. from the sidewalls of the excavation is approved. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Tuesday, April 29, 2025 11:58 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Confirmation Sampling Variance - Charles Ling #223 Well Pad - Incident Number nAPP2505848368

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Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Charles Ling #223 Well Pad (Site). On February 27, 2025, human error resulted in the release of approximately 17 barrels (bbls) of produced water onto the caliche pad; 0 bbls of produced water were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on February 27, 2025, and subsequently the release was assigned (Incident Number nAPP2505848368). The release impacted an area approximately 28,826 square feet (sq. ft.) in size on State Trust Land managed by the New Mexico State Land Office (NMSLO); the entire release remained on-pad. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, C-04753-POD1, located within a half-mile radius of the Site. The well had a reported depth to groundwater greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. A desktop review for potential site receptors has been completed for this Site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a fresh water emergent wetland located approximately 0.33 miles southwest of the Site. The Site is not underlain by unstable geology (low potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000 mg/kg TPH – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO), 2,500 mg/kg Total TPH and 10,000 mg/kg chloride.

Ensolum completed lateral and vertical delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I (see Table 1 and Table 1-CONT'D) on April 16, 2025. Matador would like to request a confirmation sampling variance for excavation floor samples collected every 400 sq. ft. from the floor of the excavation and every 200 sq. ft. from the sidewalls of the excavation where applicable. Matador is scheduled to begin confirmation soil sampling activities at the Site on May 07, 2025, and intends to remove any impacts that exceed the Site Closure Criteria via mechanical equipment. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the size of the impacted area, and a regional depth to groundwater greater than 55 ft bgs, Matador believes this *variance request* will provide equal or better protection of public health, the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2505848368).

Thanks,



**Ashley Giovengo**

Associate Principal

575-988-0055

**Ensolum, LLC**

**in f X**

“Your authenticity is your superpower.” – Unknown

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Arsenio Jones](#); [Ashley Giovengo](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 223 Well Pad (nAPP2505848368)  
February 27, 2025  
**Date:** Friday, May 2, 2025 4:43:02 PM

---

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

Greetings,

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charles Ling 223 Well Pad (Site) (Incident Number nAPP2505848368). The release occurred on February 27, 2025, and approximately 17 barrels (bbls) of produced were released on pad.

Sampling will be conducted Wednesday 05/7/2025 through Friday 5/9/2025 and will commence at 09:00 MST. The Site is located in Unit A, Section 02, Township 24S, Range 33E (32.25319,-103.53766). Approximately 73 confirmation floor samples will be collected from an excavation extent measuring 28,826 sq. ft.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 458171

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458171
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 458171

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458171
	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.	5/2/2025

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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 458174

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458174
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

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**Santa Fe, NM 87505**

CONDITIONS

Action 458174

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458174
	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.	5/2/2025

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
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Santa Fe, NM 87505**

QUESTIONS

Action 458176

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458176
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

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

CONDITIONS

Action 458176

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458176
	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.	5/2/2025

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Arsenio Jones](#); [Ashley Giovengo](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 223 Well Pad (nAPP2505848368)-02-27-2025  
**Date:** Thursday, May 8, 2025 9:32:45 AM

---

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

Greetings,

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charles Ling 223 Well Pad (Site) (Incident Number nAPP2505848368). The release occurred on February 27, 2025, and approximately 17 barrels (bbls) of produced were released on pad. Confirmation soil sampling will be conducted Monday May 12, 2025, through Wednesday May 14, 2025, and will commence at 09:00 AM MST. The Site is located in Unit A, Section 02, Township 24S, Range 33E (32.25319,-103.53766). Approximately 73 confirmation floor samples will be collected from an excavation extent measuring 28,826 sq. ft.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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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 459832

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459832
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/12/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 459832

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459832
	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.	5/7/2025

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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 459834

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459834
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

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**Oil Conservation Division**  
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CONDITIONS

Action 459834

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459834
	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.	5/7/2025

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 459836

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459836
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

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Phone: (505) 476-3441

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 459836

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459836
	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.	5/7/2025

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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 460828

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460828
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	Charles Ling 223H well Pad
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	28,826
What is the estimated number of samples that will be gathered	73
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Higinio Gonzalez (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 460828

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460828
	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.	5/12/2025

**From:** [Jason Touchet](#)  
**To:** [eco@slo.state.nm.us](mailto:eco@slo.state.nm.us)  
**Cc:** [Ashley Giovengo](#); [Arsenio Jones](#); [Chad Hamilton](#)  
**Subject:** (2-day Sample Notification) Matador Production Company - Charles Ling 223 Well Pad (nAPP2505848368)-02-27-2025  
**Date:** Tuesday, May 27, 2025 1:23:49 PM

---

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

Greetings,

Matador Production Company (Matador) is submitting a 2-day confirmation sampling notification at the Charles Ling 223 Well Pad (Site) (Incident Number nAPP2505848368). The release occurred on February 27, 2025, and approximately 17 barrels (bbls) of produced were released on pad. Confirmation soil sampling will be conducted Monday June 2, 2025, and will commence at 09:00 AM MST. The Site is in Unit A, Section 02, Township 24S, Range 33E (32.25319,-103.53766). Approximately 6 confirmation floor samples will be collected from an excavation extent measuring 2,400 sq. ft.

Thanks,

**Jason Touchet**

**EHS Specialist**

**Matador Resources Company**

**Cell: 337-652-3463**

**Email: [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)**

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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 467549

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467549
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

<b>Location of Release Source</b>	
Site Name	CHARLES LING 223H WELL PAD
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,400
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/02/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jenna Hinkle (510) 417-5262
Please provide any information necessary for navigation to sampling site	32.25347,-103.53718

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 467549

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467549
	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.	5/27/2025

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

QUESTIONS

Action 500527

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2505848368
Incident Name	NAPP2505848368 CHARLES LING 223H WELL PAD @ L-02-24S-33E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	CHARLES LING 223H WELL PAD
Date Release Discovered	02/27/2025
Surface Owner	State

<b>Incident Details</b>	
<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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Flow Line - Production   Produced Water   Released: 17 BBL   Recovered: 0 BBL   Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 08/29/2025
--	--

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

QUESTIONS, Page 3

Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 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	No

**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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	28200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	24630
GRO+DRO (EPA SW-846 Method 8015M)	22900
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	03/08/2025
On what date will (or did) the final sampling or liner inspection occur	06/02/2025
On what date will (or was) the remediation complete(d)	06/02/2025
What is the estimated surface area (in square feet) that will be reclaimed	3600
What is the estimated volume (in cubic yards) that will be reclaimed	240
What is the estimated surface area (in square feet) that will be remediated	28104
What is the estimated volume (in cubic yards) that will be remediated	938

*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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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Northern Delaware Basin (OWL) Jal, NM
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 08/29/2025
--	--

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 5

Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	<b>467549</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>06/02/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>6</b>
What was the sampling surface area in square feet	<b>2400</b>

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	28104
What was the total volume (cubic yards) remediated	938
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	3600
What was the total volume (in cubic yards) reclaimed	240
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: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 08/29/2025
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Action 500527

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 500527

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 500527
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	None	9/17/2025