



January 21, 2026

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

**Re: Deferral Request  
Boros Fed West TB  
Incident Number nAPP2518229331  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document assessment and soil sampling activities performed at the Boros Fed West TB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water onto the pad surface. Based on field observations, field screening activities, and laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred to date and requesting deferral of final remediation for Incident Number nAPP2518229331 until the Site is reconstructed and/or the pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The release is located in Unit C, Section 15, Township 26 South, Range 31 East, in Eddy County, New Mexico (32.04888°, -103.77032°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management.

On June 29, 2025, the seal on a water transfer pump failed resulting in the release of produced water onto the pad surface. The equipment failure resulted in the release of approximately 9 barrels (bbls) of produced water; 1 bbl of produced water were recovered via vacuum truck. Matador reported the release via Notification of Release (NOR) to the New Mexico Oil Conservation Division (NMOCD) on July 01, 2025, and submitted an Initial C-141 Application (C-141) on the same day. The release was assigned Incident Number nAPP2518229331.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

The closest permitted groundwater well with available depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-05018 POD1, located approximately 0.29 miles east of the Site. The well was a soil boring drilled to assess depth to groundwater near the Site. The soil boring was advanced to a depth of approximately 103.5 feet below ground surface (bgs) on November 19, 2025, and measured on November 24, 2025, confirming depth to groundwater beneath the Site to be greater than 103.5 feet bgs.

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

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 10,167 feet southeast 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 potentially underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

On September 22, 2025, Ensolum commissioned a geophysical karst survey using a BLM approved third-party cave/karst specialist. The karst survey was conducted by Southwest Geophysical Consulting, LLC, under the supervision of Dave Decker. The findings of the report indicated there was no evidence of karst features within 200 feet of the release or beneath the Site and determined the subsurface soil appeared to be stable via geophysical means and interpretation. The karst survey report is included in Appendix B. Based on the findings of the karst survey, unstable geology and/or potential conduits to groundwater through karst features appear to be absent, and the medium karst potential classification is not indicative of a sensitive receptor at this Site.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

## SITE ASSESSMENT ACTIVITIES

Beginning on July 1, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel collected seven preliminary assessment soil samples (SS01 through SS07) around the release extent at ground surface and 1-foot bgs to assess the lateral extent of the release area. Ensolum personnel returned to the Site on July 14, 2025, to advance four boreholes (BH01 through BH04) via hand auger within the release extent to assess the vertical extent of impacted soil. Boreholes BH01 through BH03 were advanced to a terminal depth of 3 feet bgs; borehole BH04 was advanced to a terminal depth of 4 feet bgs. On August 4, 2025, Ensolum personnel returned to the Site to advance borehole BH04, via hand-held gas powered core drill, to a terminal depth of 26 feet bgs. On December 16, 2025, Ensolum personnel returned to the Site to collect additional preliminary soil samples to further define the lateral extent of the release area. Four preliminary soil samples (SS03A, SS04A, SS04B, and SS05A) were collected around the north edge of the release extent.

Soils from assessment soil samples and discrete soil samples from vertical delineation sampling activities were field screened for TPH utilizing a calibrated PetroFLAG® Soil Analyzer System and for chloride using Hach® chloride QuanTab® test strips. The delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Photographs were taken during the delineation soil sampling activities and a photographic log is included in Appendix D.

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

## EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on December 15 and finishing on December 19, 2025, Ensolum personnel returned to the Site to oversee a surface scrape of the accessible impacted area on pad and to collect confirmation soil samples within the release extent. The surface scrape was completed with a backhoe and hand digging crew. After excavation, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavated release extent; due to the shallow depth of the excavation, the sidewalls were included in the composite floor samples. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS19 were collected from the release extent at a depth of 0.5 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above.

The final excavation extent measured approximately 3,718 square feet and approximately 80 cubic yards of waste-containing soil was hauled to Lea Land, LLC. The release extent and confirmation soil sample locations are presented on Figure 3.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary delineation soil samples SS01 through SS07, collected from around the release extent, were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria (reclamation requirement) at ground surface and 1-foot bgs. Laboratory analytical results for preliminary delineation soil samples SS03A, SS04A, SS04B, and SS05A, collected from around the release extent, were all in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for soil samples collected from boreholes BH01, BH02, and BH03 indicated COCs were all in compliance with the Site Closure Criteria; and the soil samples collected from boreholes BH01 and BH02 were all in compliance with the strictest Closure Criteria. Laboratory analytical results from borehole BH03 indicated COCs were all in compliance with the strictest Closure Criteria at 3 feet bgs. Laboratory analytical results for borehole BH04 indicated concentrations of TPH exceeded the Site Closure Criteria at ground surface, exceeded concentrations for GRO+DRO at 6 feet bgs, and 8 feet bgs, but were in compliance with the Site Closure Criteria at a depth of 10 feet bgs and with the strictest Closure Criteria at 22 feet bgs.

Laboratory analytical results for excavation floor soil samples FS03 through FS19 indicated all COC concentrations were in compliance with the Site Closure Criteria at a depth of 0.5 feet bgs. Laboratory analytical results for excavation floor soil samples FS01 and FS02 indicated concentrations for GRO+DRO exceeded the Site Closure Criteria at 0.5 feet bgs. Laboratory analytical results are

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summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix E.

## DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, the supports beneath them, preventing full excavation of impacted soil. All accessible impacted soil was excavated to the maximum extent practicable (MEP). The estimated area of remaining impacted soil based on analytical results for borehole BH04 measures approximately 832 square feet, and assuming a depth of up to 9.5 feet bgs, due to 0.5 feet of impacted and waste containing soil already removed, under the active production equipment a total of approximately 293 cubic yards of impacted soil remaining in place. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS07, SS03A, SS04A, SS04B, and SS05A at ground surface and vertically delineated by borehole sample BH04 at a depth of 10 feet bgs.

Matador does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 103.5 feet bgs. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2518229331 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Mrs. Ashley Urzedo 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)  
Associate Principal Geologist

cc: Jason Touchet, Matador  
BLM



Matador Production Company  
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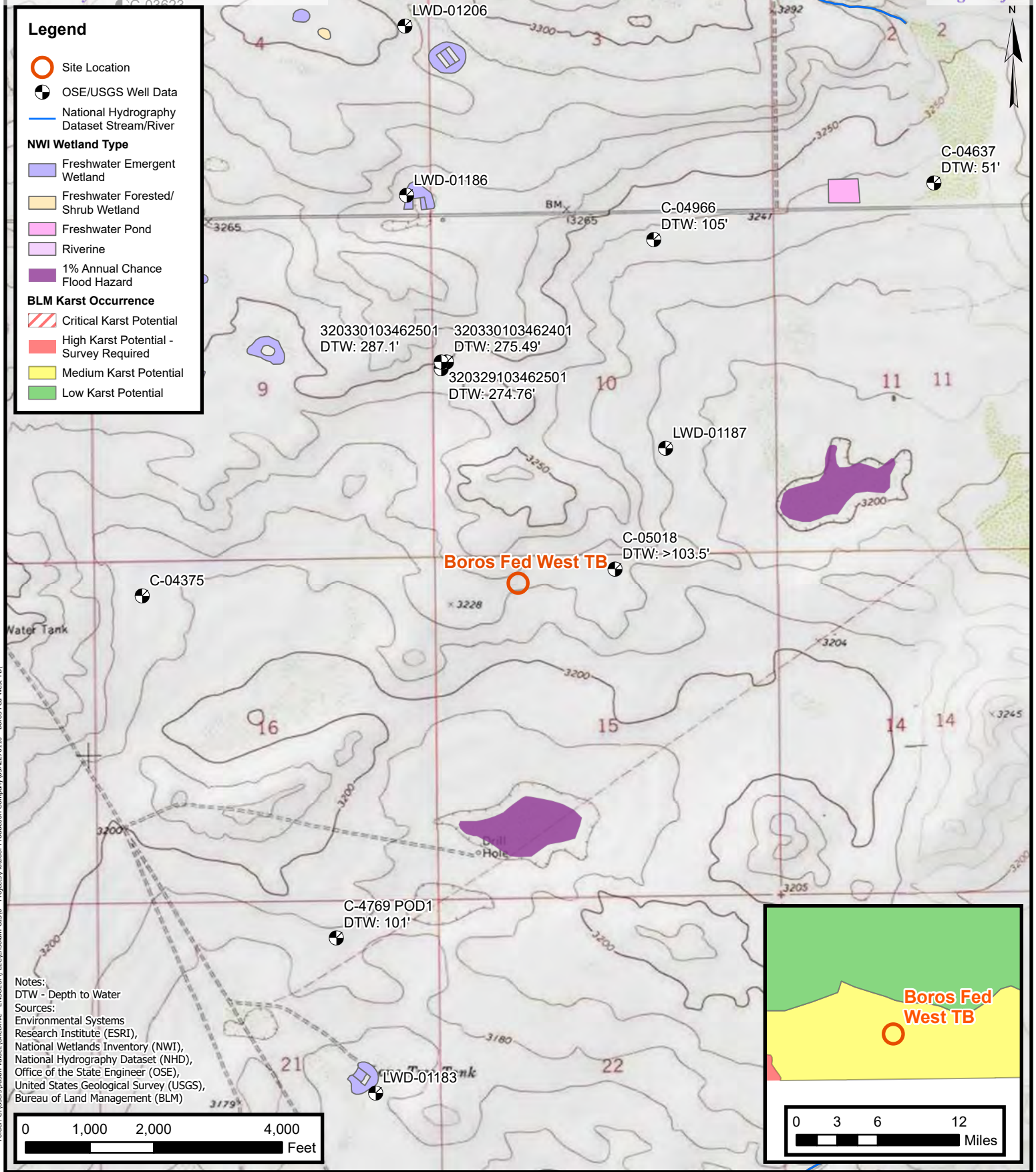
**Appendices:**

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Delineation Soil Sample Analytical Results
Table 2	Excavation Floor Soil Sample Analytical Results
Appendix A	Well Record and Log
Appendix B	Karst Survey
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence



FIGURES





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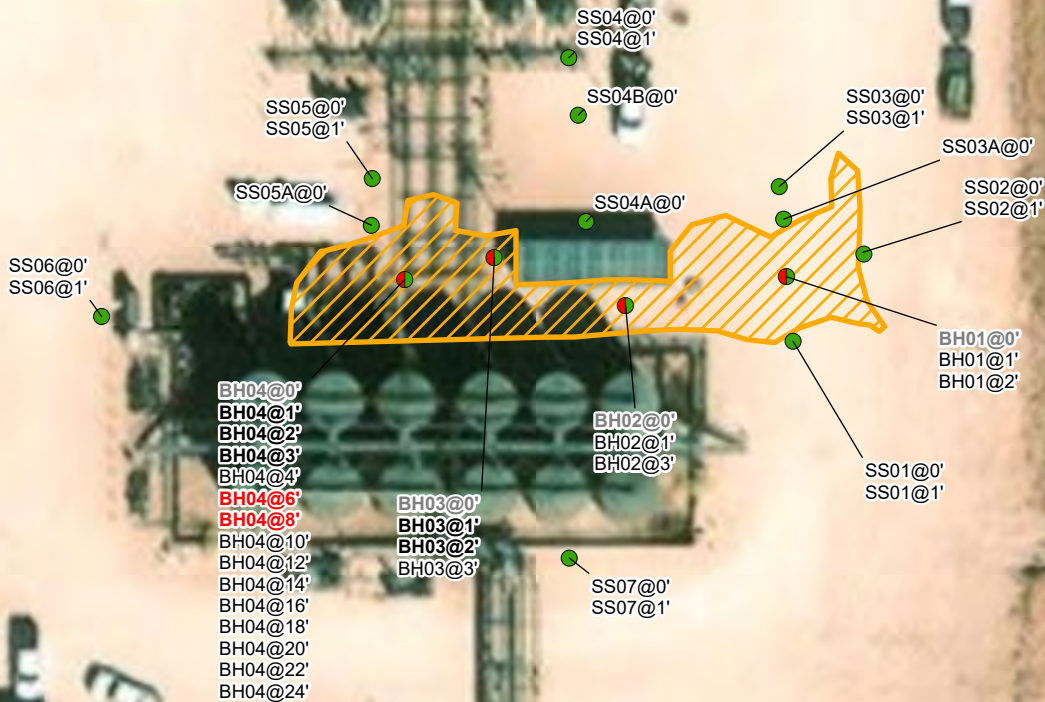
**Site Receptor Map**  
 Matador Production Company  
 Boros Fed West TB  
 Incident Number: nAPP2518229331  
 Unit C, Section 15, T 26S, R 31E  
 Eddy County, New Mexico

**FIGURE**  
**1**

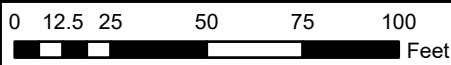


### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.  
 Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.  
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

Matador Production Company  
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### FIGURE

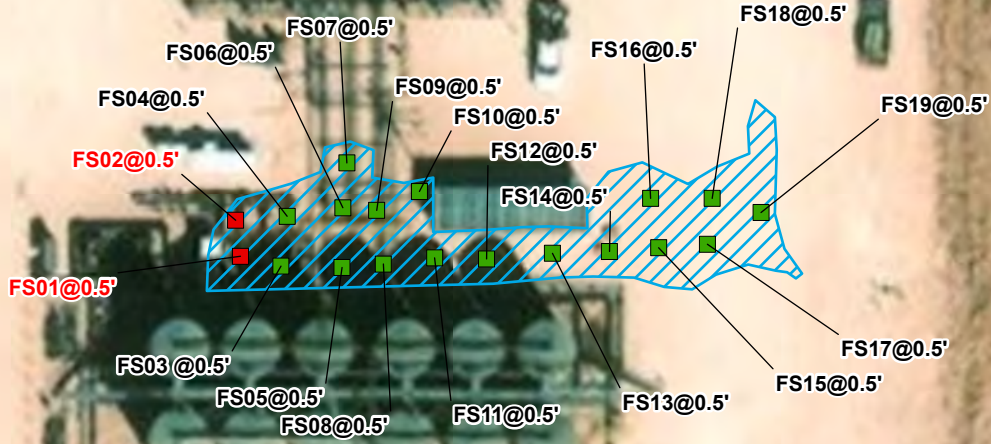
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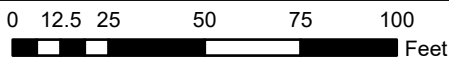


### Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.  
 Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.  
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

## Excavation Soil Sample Locations

Matador Production Company  
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### FIGURE

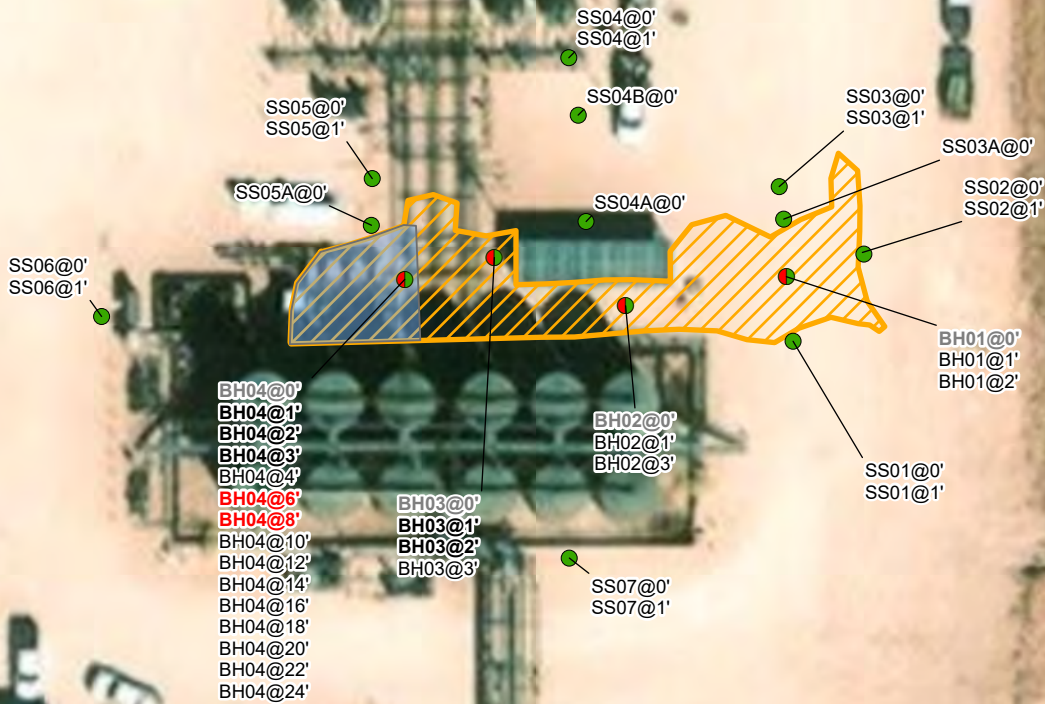
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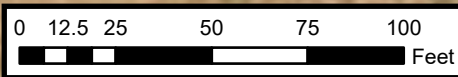


### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Deferral Area (Area - 832 sq ft, Total Volume - 293 cu yds)
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.  
 Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.  
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

## Area of Requested Deferral

Matador Production Company  
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 Unit C, Section 15, T 26S, R 31E  
 Eddy County, New Mexico

# FIGURE

# 4







TABLES

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<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> Boros Fed West TB Matador Production Company Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 101 feet bgs			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
Delineation Soil Samples										
SS01	7/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	268
SS01	7/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	405
SS02	7/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS02	7/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	141
SS03	7/3/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS03	7/3/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	203
SS03A	12/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>5,720</b>
SS04	7/3/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	254
SS04	7/3/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	277
SS04A	12/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>1,700</b>
SS04B	12/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	328
SS05	7/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	143
SS05	7/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
SS05A	12/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>16,000</b>
SS06	7/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS06	7/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.8
SS07	7/1/2025	0	<0.0250	<0.0500	<20.0	<50.0	<50.0	<50.0	<50.0	<100
SS07	7/1/2025	1	<0.0250	<0.0500	<20.0	<50.0	<50.0	<50.0	<50.0	409
BH01	7/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>8,650</b>
BH01	7/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	540
BH01	7/14/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	100
BH02	7/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>13,100</b>
BH02	7/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH02	7/14/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	256
BH03	7/14/2025	0	<0.0250	<0.0500	<20.0	59.4	73.9	59.4	133	<b>19,600</b>
BH03	7/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>6,610</b>
BH03	7/14/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>6,460</b>
BH03	7/25/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	38.6



**TABLE 1 - CONT'D**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Boros Fed West TB  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 101 feet bgs			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
BH04	7/14/2025	0	<0.0250	0.959	25.3	6,800	3,570.0	<b>6,800</b>	<b>10,370</b>	<b>10,600</b>
BH04	7/14/2025	1	<0.0250	<0.0500	<20.0	72.2	<50.0	72.2	72.2	<b>10,700</b>
BH04	7/14/2025	2	<0.0250	<0.0500	<20.0	65.8	<50.0	65.8	65.8	<b>6,970</b>
BH04	7/14/2025	3	<0.0250	<0.0500	<20.0	84.0	55.5	84.0	<b>140</b>	<b>9,440</b>
BH04	7/25/2025	4	<0.0250	<0.0500	<20.0	393	226	393	619	5,150
BH04	8/4/2025	6	<0.0250	<0.0500	<20.0	1,060	628	<b>1,060</b>	1,688	10,000
BH04	8/4/2025	8	<0.0250	<0.0500	<20.0	1,340	758	<b>1,340</b>	2,098	1,040
BH04	8/4/2025	10	<0.0250	<0.0500	<20.0	408	255	408	663	588
BH04	8/4/2025	12	<0.0250	<0.0500	<20.0	465	341	465	806	488
BH04	8/4/2025	14	<0.0250	<0.0500	<20.0	430	290	430	720	331
BH04	8/4/2025	16	<0.0250	<0.0500	<20.0	381	261	381	642	280
BH04	8/4/2025	18	<0.0250	<0.0500	<20.0	112	97	112	209	215
BH04	8/4/2025	20	<0.0250	<0.0500	<20.0	261	153	261	414	212
BH04	8/4/2025	22	<0.0250	<0.0500	<20.0	29.7	<50.0	29.7	<50.0	51.2
BH04	8/4/2025	24	<0.0250	<0.0500	<20.0	59.1	<50.0	59.1	59.1	104

**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 reclamation standard where applicable.

Concentrations in **red** exceed the NMOCD Table I Closure Criteria 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**  
 Boros Fed West TB  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 101 feet bgs			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	12/18/2025	0.5	<0.0250	0.0580	<20.0	1,830	703	<b>1,830</b>	<b>2,533</b>	<b>9,960</b>
FS02	12/18/2025	0.5	<0.0250	<0.0500	<20.0	1,070	564	<b>1,070</b>	<b>1,634</b>	<b>8,620</b>
FS03	12/18/2025	0.5	<0.0250	<0.0500	<20.0	963	619	963	<b>1,582</b>	<b>12,200</b>
FS04	12/18/2025	0.5	<0.0250	<0.0500	<20.0	275	193	275	<b>468</b>	<b>11,800</b>
FS05	12/18/2025	0.5	<0.0250	<0.0500	<20.0	893	476	893	<b>1,369</b>	<b>12,900</b>
FS06	12/18/2025	0.5	<0.0250	<0.0500	<20.0	54.5	<50.0	54.5	54.5	<b>11,800</b>
FS07	12/18/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>12,100</b>
FS08	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>13,300</b>
FS09	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>12,700</b>
FS10	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>8,620</b>
FS11	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>14,400</b>
FS12	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>11,200</b>
FS13	12/19/2025	0.5	<0.0250	<0.0500	<20.0	49.0	<50.0	49.0	<50.0	<b>13,100</b>
FS14	12/19/2025	0.5	<0.0250	<0.0500	<20.0	46.1	<50.0	46.1	<50.0	<b>11,100</b>
FS15	12/19/2025	0.5	<0.0250	<0.0500	<20.0	35.4	<50.0	35.4	<50.0	<b>8,270</b>
FS16	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>6,020</b>
FS17	12/19/2025	0.5	<0.0250	<0.0500	<20.0	50.2	<50.0	50.2	50.2	<b>10,300</b>
FS18	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>4,990</b>
FS19	12/19/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>3,790</b>

**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 reclamation standard where applicable.

Concentrations in **red** exceed the NMOCD Table I Closure Criteria 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 Record and Log

---



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). C-05018		
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson FWY Suite 1500				CITY Dallas	STATE TX	ZIP 75240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 58.17	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE 103	45	55.56	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE S15 T26s R31e							

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. WD-1862	NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 11-19-25	DRILLING ENDED 11-19-25	DEPTH OF COMPLETED WELL (FT) 103.5'	BORE HOLE DEPTH (FT) 103.5'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	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) N/A	DATE STATIC MEASURED 11-25-25		
	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'	103.5'	6'	No casing left in hole				

<b>3. ANNULAR MATERIAL</b>	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				
				N/A		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2	

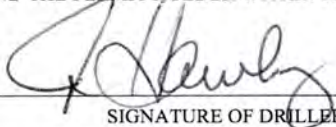


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0'	10'	10'	Caliche	Y    ✓ N	
	10'	103.5'	93.5'	Red Sand	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: DTGW Bore					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 11-25-25. DTGW bore was Dry. Temporary well casing was removed, bore hole was backfilled from bottom to 10' BGS with drill cuttings. Hydrated Bentonite hole plug was poured from 10' BGS to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer	

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

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



# PLUGGING RECORD



**NOTE:** A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-05018 POD1

Well owner: Matador Production Company Phone No.: \_\_\_\_\_

Mailing address: 5400 Lyndon B Johnson FWY Suite 1500

City: Dallas State: TX Zip code: 75240

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: H&R Enterprises, LLC.

2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-27

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Nathan Smelcer

4) Date well plugging began: 11-25-25 Date well plugging concluded: 11-25-25

5) GPS Well Location: Latitude: 32 deg, 2 min, 58.17 sec  
Longitude: 103 deg, 45 min, 55.56 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 103.5' ft below ground level (bgl),  
by the following manner: well sounder

7) Static water level measured at initiation of plugging: N/A ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 10-16-25

9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

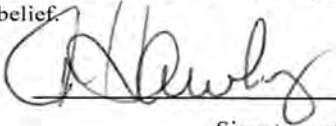
For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Pour	
	10' - 103.5' Drill Cuttings	Approx. 139 gallons	139 gallons	Pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

**III. SIGNATURE:**

I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

12-1-25

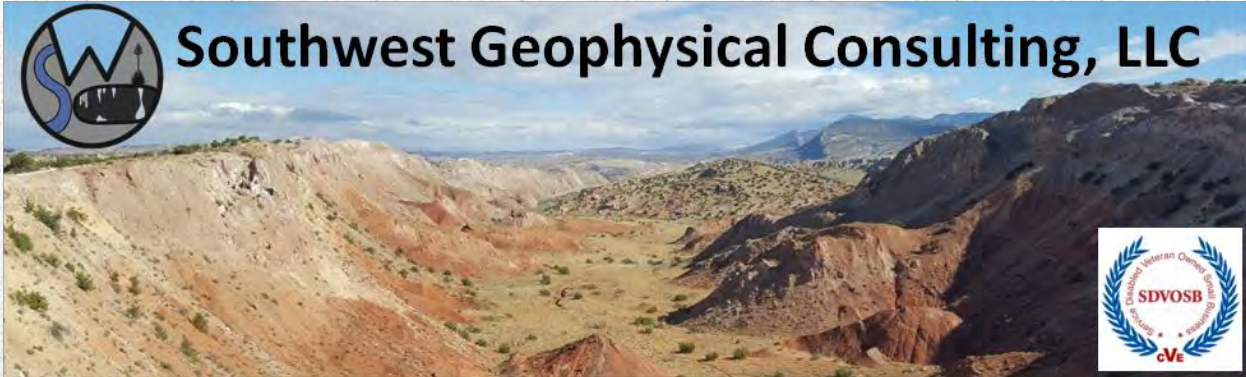
Date



APPENDIX B  
Karst Survey

---





**Environmental Karst Study Report  
Matador Boros Fed West CTB  
Eddy County, New Mexico**

**Prepared For:  
Ensolum, LLC  
3122 National Parks Highway  
Carlsbad, NM 88220**

**Within 200 feet of the spill delineation boundary:**

- Negative  Positive for surface karst
- Stable  Unstable Ground
- Karst Monitor Recommended

**September 22, 2025**

ENS-022-20250821

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**MMXXV**



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## 1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on August 21, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Matador Boros Fed West CTB release site (hereinafter termed "BFWC") centered at N 32.048836° W 103.770243°

### 1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC<sup>[1]</sup>), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions<sup>[2]</sup>) within the spill boundary of the Matador Boros Fed West CTB release as provided by the client via e-mail (**Karst Survey - Matador Production Company - Boros Fed West TB.eml**) on August 21, 2025, using electrical resistivity imaging<sup>[3]</sup>.

### 1.2 Summary of Findings

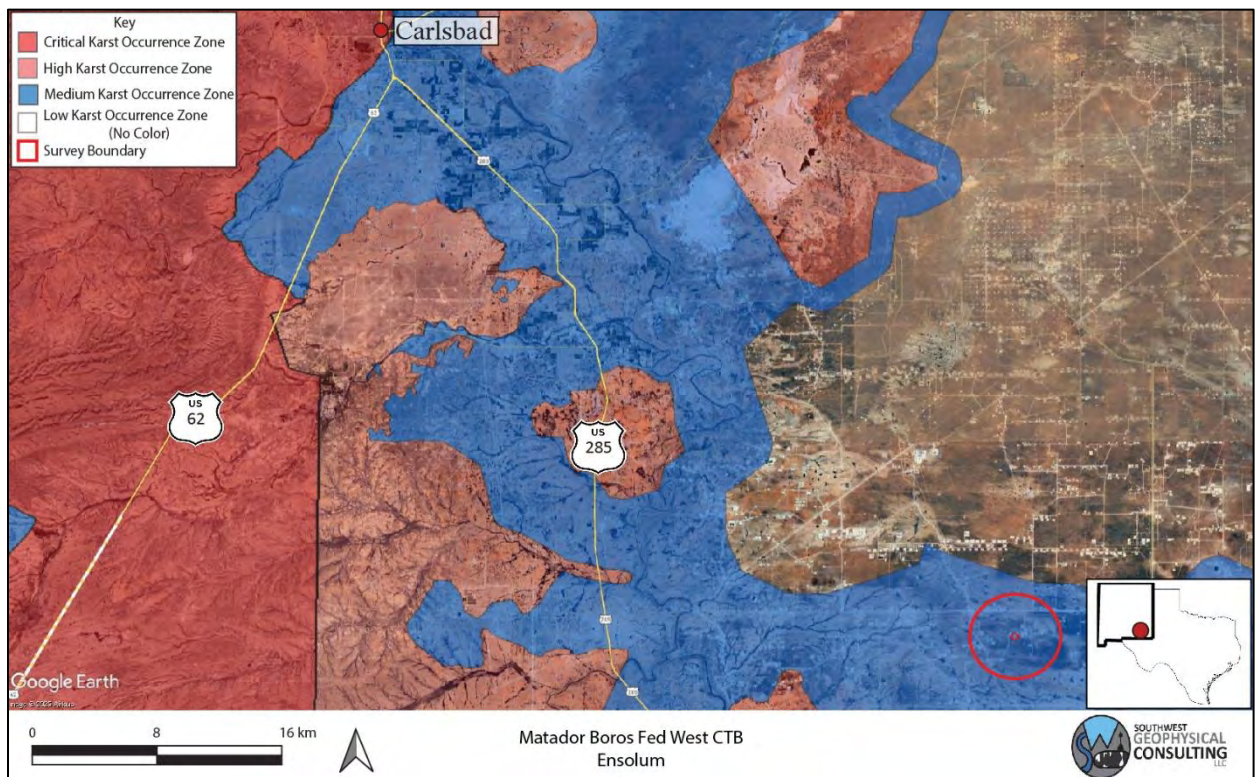
- **No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the BFWC geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**

### 1.3 Affected Environment

The BFWC project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns that need to be considered in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers<sup>[4]</sup>. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)<sup>[5]</sup> (**Figure 1**).



**Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.**

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff<sup>[4]</sup>.

**Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.**

### **1.4 Limitations of Report**

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

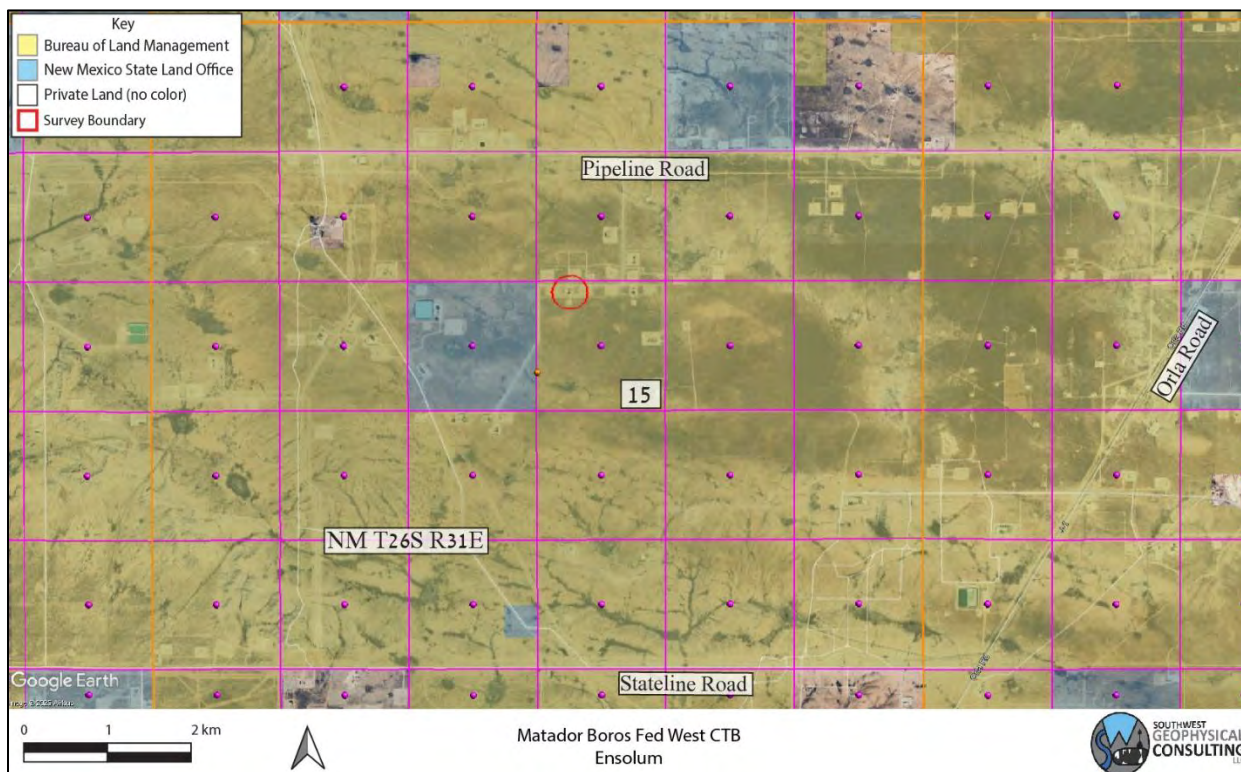
To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.



## 2.0 LOCATION AND DESCRIPTION OF STUDY AREA

### 2.1 Description of Site

The site is located 59.5 kilometers (37.0 miles) southeast of Carlsbad, New Mexico, south of Pipeline Road, north of Stateline Roads, and west of Orla Road in an area known as Red Bluffs. The spill delineation boundary is located within the NW ¼ section of section 15, NM T26S R31E<sup>[6]</sup> (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock<sup>[7]</sup> (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January<sup>[8]</sup>. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map<sup>[9]</sup> and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an MKOZ<sup>[5]</sup> (**Figure 1**) and within BLM-CFO managed land<sup>[10]</sup> (**Figure 2**).



**Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.**



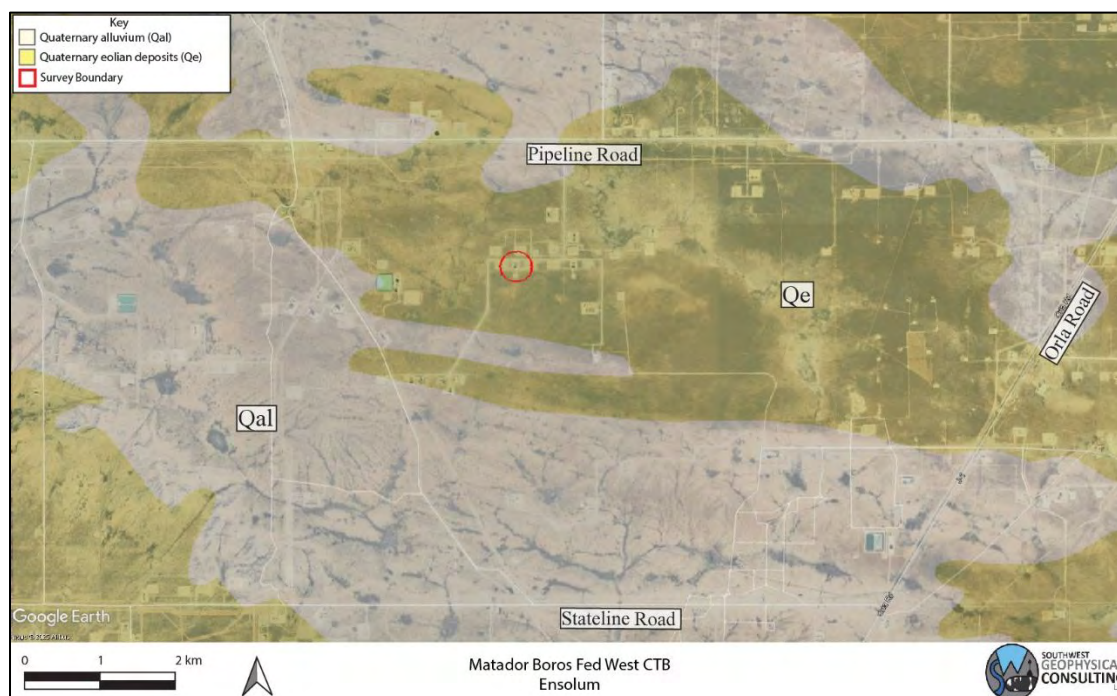
## 2.2 Local Geology Summary

The site for the BFWC survey is located at an elevation of 984 meters (3,228 feet),  $\pm$  2 meters (6.6 feet), and is located within a region entirely underlain by the Permian Dewey Lake (Pdl) and Rustler (Pru) Formations (neither of which are shown in the image below as they do not outcrop at the surface in this area). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal) and eolian sands (Qe)<sup>[11]</sup> up to 5 meters in depth (**Figure 3**).

The Dewey Lake Formation is composed of calcite-cemented, hematite-stained quartz sand grains<sup>[12]</sup> and occasional gypsum lenses and can, in favorable conditions, form cavernous porosity within 30 meters of the top of the Rustler Formation<sup>[13]</sup>. The Dewey Lake Formation is also known to be highly fractured near areas of heavy halite dissolution such as Nash Draw (approximately 35 kilometers northwest), and these fractures can act as hydrologic conduits.

The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum<sup>[12]</sup>, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members). The Forty-niner and Tamarisk members are known to have highly developed karst features including large voids and solution-enlarged fractures<sup>[14]</sup>.

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale<sup>[15]</sup> and the Digital Geologic Map of New Mexico in ARC/INFO Format<sup>[11]</sup>.



**Figure 3: Geology overview.** Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

## 2.3 Description of Survey

### 2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance<sup>[1]</sup> (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated December 31, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated August 10, 2025<sup>[16]</sup>; the Phantom Banks, NM, 1:24,000 quad, 1968, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary<sup>[4]</sup> (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report<sup>[17]</sup>.



**Figure 4: Surface karst survey overview. Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.**

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via sUAS by Pat Lagodney of SWCA on August 29, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on September 4, 2025.



### 2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 28-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole configuration; line BFWC01 is laid out south to north while line BFWC02 is laid out west to east. Both lines consisted of 28 electrodes at 5-meter spacing, resulting in 135-meter-long arrays (**Figure 5, Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole2x14). This electrode configuration provided a depth of investigation of 27 meters (89 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

Resistivity lines are placed as close as possible to the release location without compromising the data collection due to electrical noise from the equipment and without risking damage to buried infrastructure on the pad.



Figure 5: Geophysical survey overview. Two survey lines were conducted with 28 electrodes (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

**Table 1** provides basic line data. Detailed information for each line including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

**Table 1: Survey Line Data Table.** The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files BFWC\_ERI\_Points.xlsx and ENS-022-20250821\_BFWC\_Data\_Files.kmz.

File Name:	Completed By:	Date:
BFWC01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Aaron Beirl – Field Geologist Ryan Palmer – GIS Specialist	9/8/2025
BFWC02.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

**Table 2: Software Information and Settings**

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

**Note:** Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, Aaron Beirl, and Ryan Palmer on September 8, 2025.



### 3.0 RESULTS

#### 3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within 305 meters (1,000 feet)<sup>[1]</sup> of the spill delineation boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)<sup>[1]</sup> survey boundary (Figure 6).

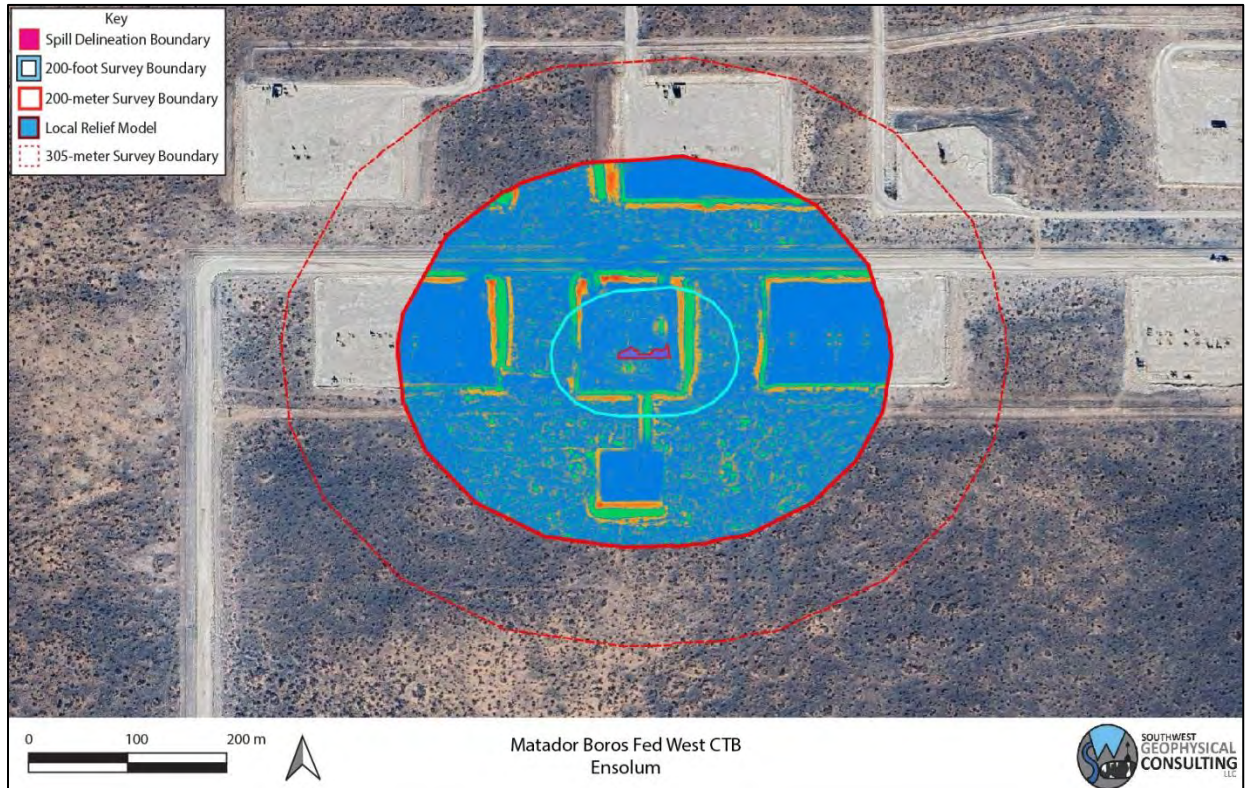
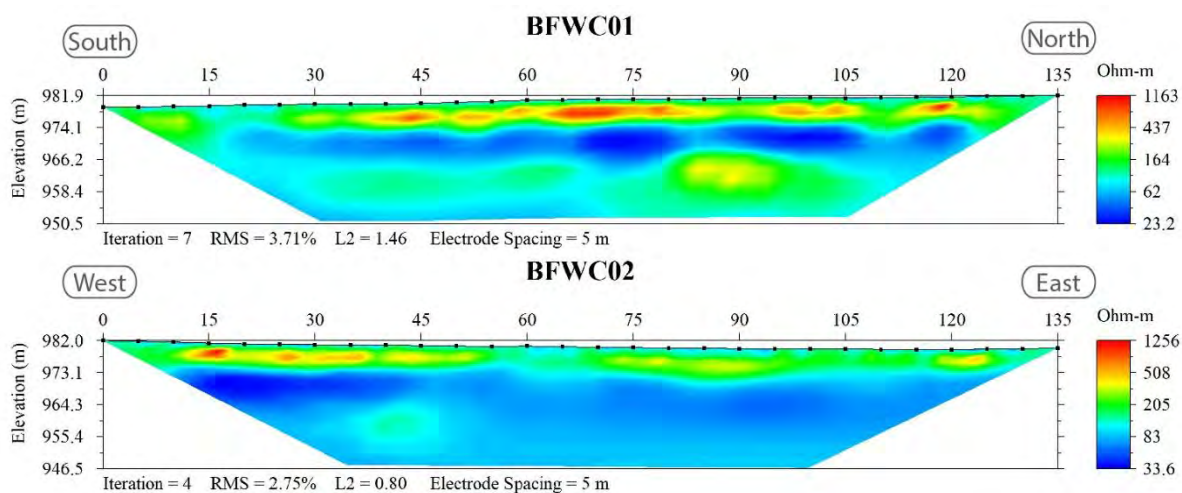


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: December 31, 2023. Image datum: WGS-84.

### 3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with low resistivities between 23 and 1,256 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.



**Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.**

#### 4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the BFWC survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as sand, caliche, or sandstone of the Dewey Lake Formation, or dry caliche soils and gypsum or dolomite bedrock of the Rustler Formation. Due to their much lower resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts<sup>[18]</sup> (**Figure 7** and **Figure 8**).

Low-resistivity areas between 23 – 40 Ohm-m may either represent surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Dewey Lake or Rustler Formations (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5 – 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.



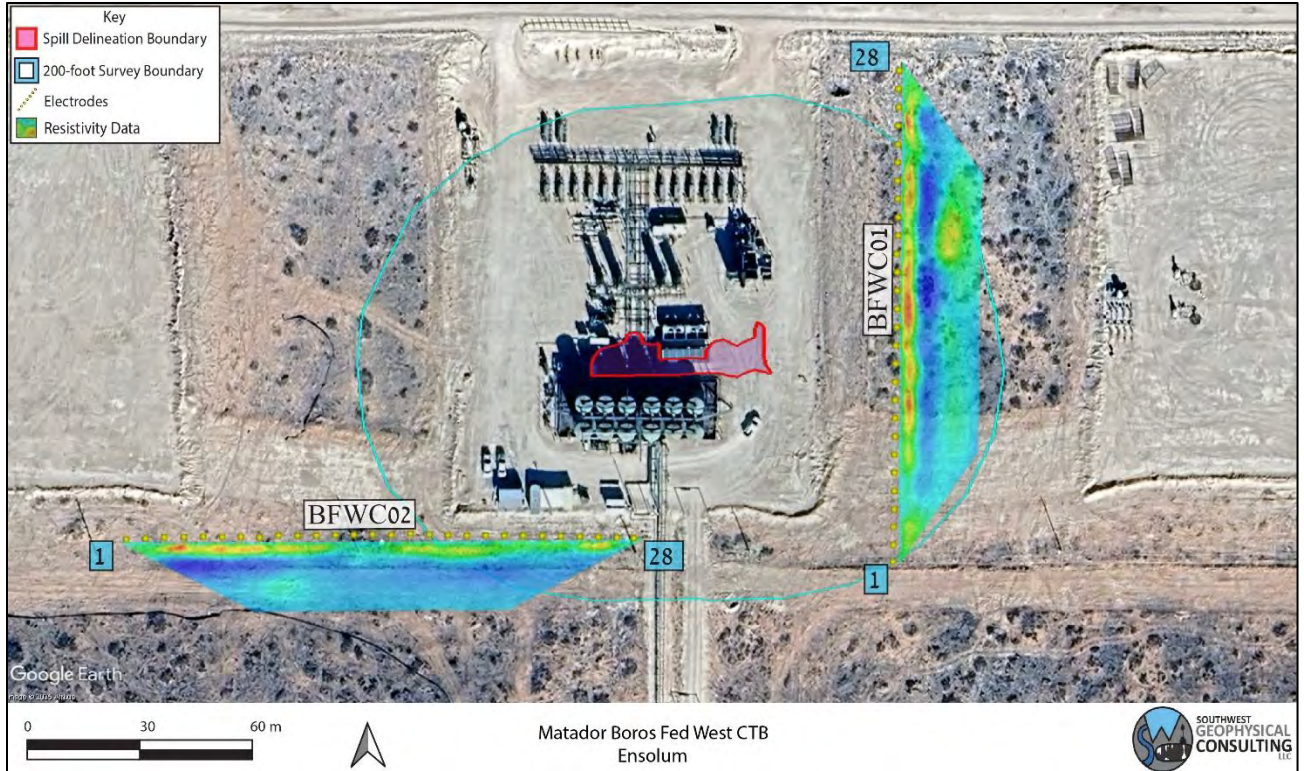


Figure 8: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: December 31, 2023. Datum: WGS-84.

## 5.0 SUMMARY

- **The BFWC survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

## 6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.



Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at [blm\\_nm\\_karst@blm.gov](mailto:blm_nm_karst@blm.gov).

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

## 7.0 REFERENCES

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**8.0 GLOSSARY OF TERMS**

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated $\Omega$ -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)



## 9.0 ATTESTATION

### David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

[dave@swgeophys.com](mailto:dave@swgeophys.com)

(505) 585-2550

## CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-022-20250821 entitled, “Environmental Karst Study Report, Matador Boros Fed West CTB, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, September 25, 2025.



David D. Decker  
PhD, CPG-12123






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## APPENDIX C


# Lithologic Soil Sampling Logs


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					Sample Name: BH01		Date: 7/14/2025	
					Site Name: Boros Fed West TB			
					Incident Number: nAPP2518229331			
					Job Number: 03A2270110			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Aboubakar Kone		Method: Hand Auger	
Coordinates: 32.048854 , -103.770047					Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is 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	Tan Caliche Pad Material, Well Graded, Non-Plastic, Non-Cohesive, Massive, No Stain
D	515		N	BH01	1	1	SM	Dark Brown Silty Sand, Poorly Graded, Non Plastic, Non-Cohesive, Massive, No Stain
D	<168	29	N	BH01	2	2		
D	<168		N	BH01	3	3		
Total Depth@ 3 feet bgs.								



					Sample Name: BH02		Date: 7/14/2025	
					Site Name: Boros Fed West TB			
					Incident Number: nAPP2518229331			
					Job Number: 03A2270110			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Aboubakar Kone		Method: Hand Auger	
Coordinates: 32.048835 -103.770182					Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH02	0	0	CCHE	Tan Caliche Pad Material, Well Graded, Non-Plastic, Non-Cohesive, Massive, No Stain
D	2,727		N	BH02	1	1		
D	246	25	N	BH02	2	2	SM	Dark Brown Silty Sand, Poorly Graded, Non Plastic, Non-Cohesive, Massive, No Stain
D	246		N	BH02	3	3		
Total Depth@ 3 feet bgs.								

						Sample Name: BH03		Date: 7/14/25	
						Site Name: Boros Fed West TB			
						Incident Number: nAPP2518229331			
						Job Number: 03A2270110			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>						Logged By: Aboubakar Kone		Method: Auger	
Coordinates: 32.048870 , -103.770292						Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag 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	BH03	0	0	CCHE	Tan Caliche Pad Material, Well Graded, Non-Plastic, Non-Cohesive, Massive, No Stain	
D	7778		N	BH03	1	1			
D	7778		N	BH03	2	2			
D	<168	13	N	BH03	3	3			
Total Depth@ 3 feet bgs.									

				Sample Name: BH04		Date: 7/14/25		
				Site Name: Boros Fed West TB				
				Incident Number: nAPP2518229331				
				Job Number: 03A2270110				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: AK/US		Method: Auger/ Core Drill		
Coordinates: 32.048855 , -103.770368				Hole Diameter: 3"		Total Depth: 26'		
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH04	0	0		
D	16,564		Y	BH04	1	1	CCHE	Tan Caliche Pad Material, Well Graded, Non-Plastic, Non-Cohesive, Massive, No stain
D	9,890		N	BH04	2	2		
D	10,735		N	BH04	3	3	SM	Dark Brown Silty Sand, Poorly Graded, Low Plasticity, Low-Cohesiveness, Massive, No Stain
D	7,190		N	BH04	4	4		
D	9,122		N	BH04	5	5		Tan Sand w/ silt, fine to coarse grain, non-cohesive, light odor
D	7,778		N	BH04	6	6	SW-SM	Tan Sand w/ silt, fine to medium grain, non-cohesive, light odor
D	2,391		N	BH04	7	7	SP-SM	Tan Sand w/ silt, fine grain, non-cohesive, light odor
D	856		N	BH04	8	8	SW-SM	Light Brown Sand w/ silt, fine to coarse grain, non-cohesive, light odor
D	397	429	N	BH04	9	9		Tan Caliche w/ little silt, fine to coarse grain, non-cohesive, light odor
D	576	446	N	BH04	10	10	CCHE	Tan Caliche w/ silt, fine to coarse grain, non-cohesive, light odor
D	397	231	N	BH04	11	11		
D	453	744	N	BH04	12	12	SP-SM	Brown Sand w/ silt, fine grain, non-cohesive, light odor

								Sample Name: BH04		Date: 7/14/2025	
								Site Name: Boros Fed West TB			
								Incident Number: nAPP2518229331			
								Job Number: 03A2270110			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Aboubakar Kone		Method: Auger	
Coordinates: 32.048855 , -103.770368								Hole Diameter: 3"		Total Depth: 26'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	347	266	N	BH04	13	13	SP	Brown Sand w/ some silt, fine grain, non-cohesive, light odor			
D	397	116	N	BH04	14	14					
D	246	202	N	BH04	15	15	SP-SM	Brown Sand w/ silt, fine grain, non-cohesive, light odor			
D	347	462	N	BH04	16	16					
D	246	488	N	BH04	17	17	SP	Brown Sand w/ few silt, fine grain, non-cohesive, light odor			
D	207	189	N	BH04	18	18		Brown Sand w/ trace silt, fine grain, non-cohesive			
D	<168	439	N	BH04	19	19		Brown Sand, fine grain, non-cohesive			
D	207	278	N	BH04	20	20		Brown Sand w/ trace silt, fine grain, non-cohesive			
D			N	BH04	21	21					
D	<168	169	N	BH04	22	22					
D			N	BH04	23	23					
D	<168	191	N	BH04	24	24	SP	Brown Sand w/ trace silt, fine grain, non-cohesive			
D			N	BH04	25	25					
D		642	N	BH04	26	26					





## APPENDIX D

### Photographic Log

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**Photographic Log**  
Matador Production Company  
Boros Fed West TB  
nAPP2518229331



Photograph 1  
Date: 7/1/2025  
Description: Lease Sign  
View: South



Photograph 2  
Date: 7/1/2025  
Description: SS01  
View: South



Photograph 3  
Date: 7/1/2025  
Description: SS07  
View: West



Photograph 4  
Date: 7/3/2025  
Description: SS03  
View: East





**Photographic Log**  
 Matador Production Company  
 Boros Fed West TB  
 nAPP2518229331



Photograph 5 Date: 7/14/2025  
 Description: BH01  
 View: North



Photograph 6 Date: 7/14/2025  
 Description: BH04  
 View: South



Photograph 7 Date: 7/25/2025  
 Description: BH03 3.5'  
 View: West

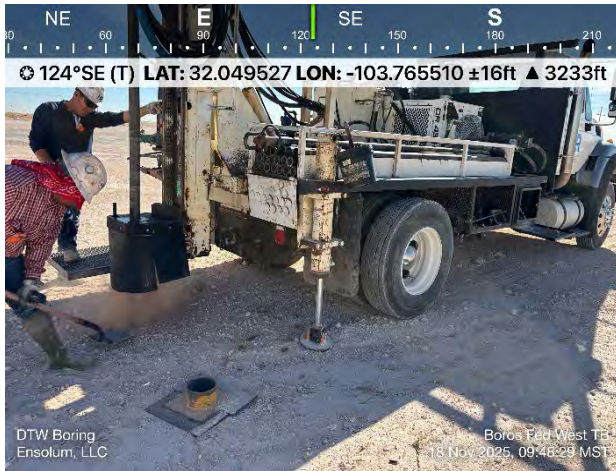


Photograph 8 Date: 8/4/2025  
 Description: BH04  
 View: Southeast





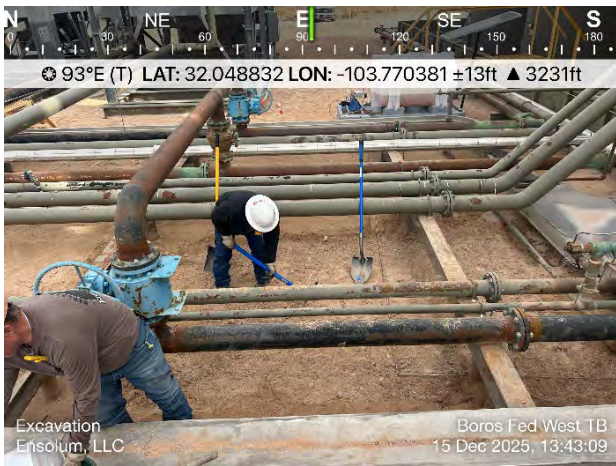
**Photographic Log**  
Matador Production Company  
Boros Fed West TB  
nAPP2518229331



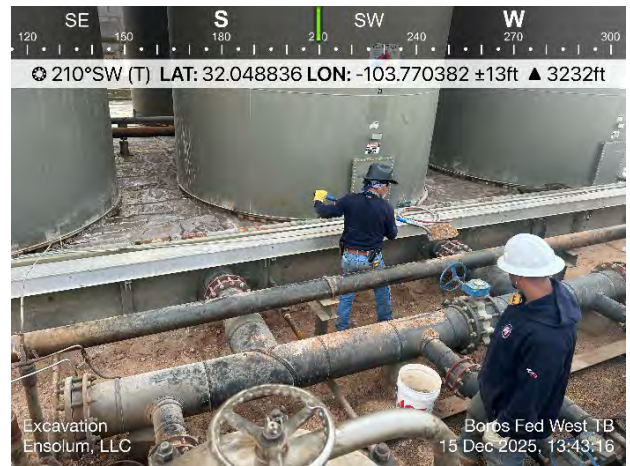
Photograph 9 Date: 11/18/2025  
Description: Depth to Water Boring  
View: Southeast



Photograph 10 Date: 11/19/2025  
Description: Depth to Water Boring  
View: Southeast



Photograph 11 Date: 12/15/2025  
Description: Excavation  
View: East



Photograph 12 Date: 12/15/2025  
Description: Excavation  
View: Southwest

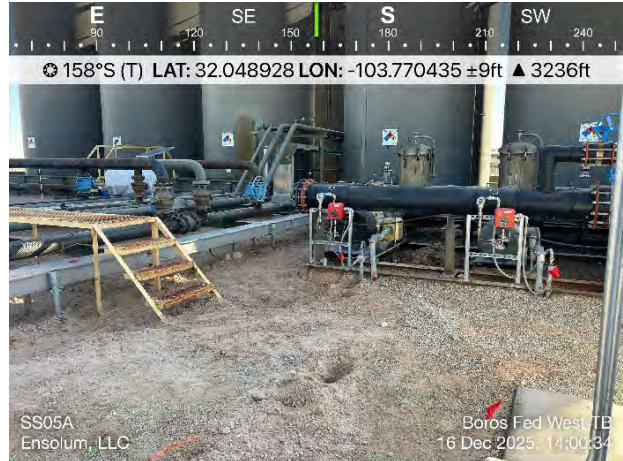




**Photographic Log**  
Matador Production Company  
Boros Fed West TB  
nAPP2518229331



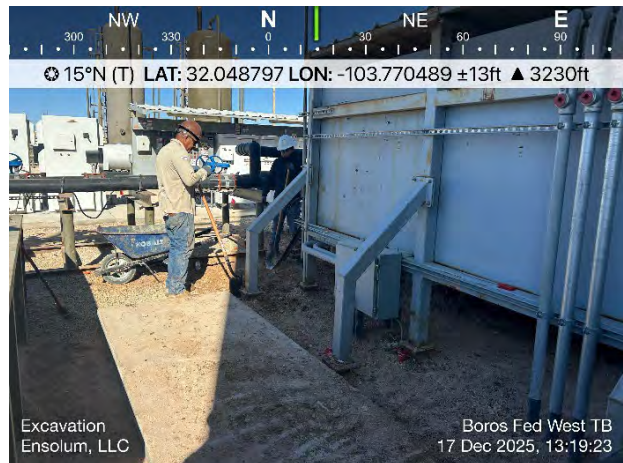
Photograph 13 Date: 12/15/2025  
Description: Spoil Pile  
View: West



Photograph 14 Date: 12/16/2025  
Description: Delineation (SS05A)  
View: South



Photograph 15 Date: 12/16/2025  
Description: Excavation  
View: South

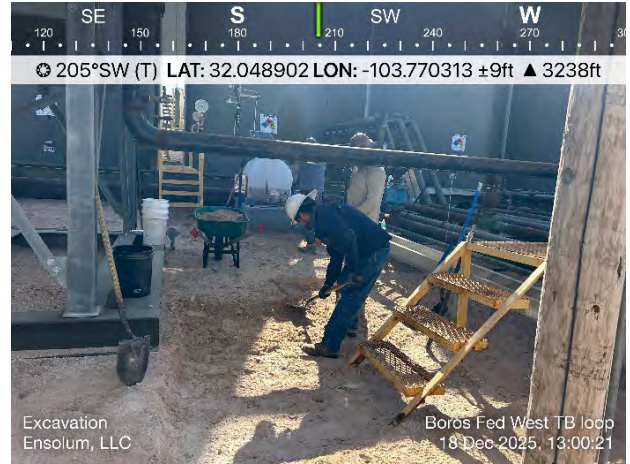


Photograph 16 Date: 12/17/2025  
Description: Excavation  
View: North



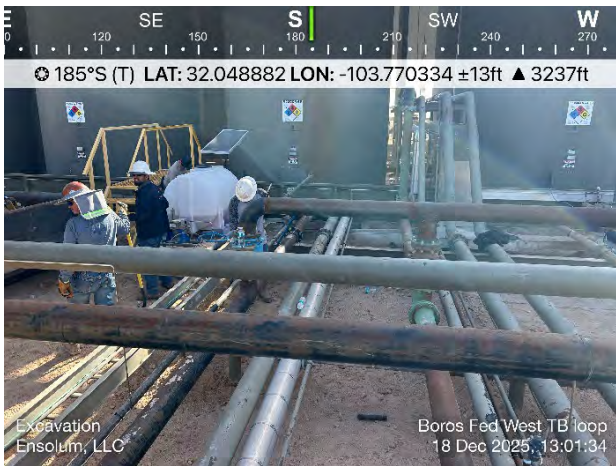


**Photographic Log**  
 Matador Production Company  
 Boros Fed West TB  
 nAPP2518229331



Photograph 17 Date: 12/17/2025  
 Description: Excavation  
 View: Northwest

Photograph 18 Date: 12/18/2025  
 Description: Excavation  
 View: South



Photograph 19 Date: 12/18/2025  
 Description: Excavation  
 View: South

Photograph 20 Date: 12/19/2025  
 Description: Excavation  
 View: Southeast

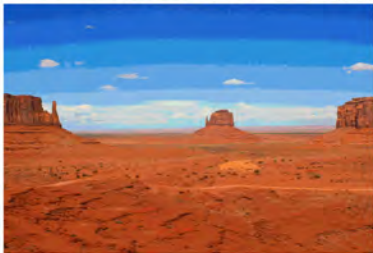


## APPENDIX E

# 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: Boros Fed West TB

Work Order: E507023

Job Number: 23003-0002

Received: 7/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/10/25

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: 7/10/25

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

Project Name: Boros Fed West TB  
Workorder: E507023  
Date Received: 7/3/2025 12:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2025 12:00:00AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/10/25 16:38
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E507023-01A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS01-1'	E507023-02A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS02-0'	E507023-03A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS02-1'	E507023-04A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS05-0'	E507023-05A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS05-1'	E507023-06A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS06-0'	E507023-07A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS06-1'	E507023-08A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS07-0'	E507023-09A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.
SS07-1'	E507023-10A	Soil	07/01/25	07/02/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS01-0'**

**E507023-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/09/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	07/08/25	07/09/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: AK		Batch: 2528059
Chloride	268	100	5	07/08/25	07/09/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS01-1'**

**E507023-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/09/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	07/08/25	07/09/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	405	100	5	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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SS02-0'

E507023-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.7 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	ND	100	5	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS02-1'**

**E507023-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	141	40.0	2	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS05-0'**

**E507023-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	143	100	5	07/08/25	07/09/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS05-1'**

**E507023-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	242	200	10	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS06-0'**

**E507023-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	ND	40.0	2	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS06-1'**

**E507023-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	41.8	40.0	2	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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**SS07-0'**

**E507023-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	ND	100	5	07/08/25	07/09/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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SS07-1'

E507023-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Benzene	ND	0.0250	1	07/03/25	07/08/25	
Ethylbenzene	ND	0.0250	1	07/03/25	07/08/25	
Toluene	ND	0.0250	1	07/03/25	07/08/25	
o-Xylene	ND	0.0250	1	07/03/25	07/08/25	
p,m-Xylene	ND	0.0500	1	07/03/25	07/08/25	
Total Xylenes	ND	0.0250	1	07/03/25	07/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.2 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2527101
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/25	07/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	07/03/25	07/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2528058
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/25	07/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/25	07/10/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	07/08/25	07/10/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2528059
Chloride	409	200	10	07/08/25	07/09/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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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 (2527101-BLK1)

Prepared: 07/03/25 Analyzed: 07/08/25

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		98.4	70-130			

#### LCS (2527101-BS1)

Prepared: 07/03/25 Analyzed: 07/08/25

Benzene	4.85	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.81	0.0250	5.00		96.2	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.50	0.0500	10.0		95.0	70-130			
Total Xylenes	14.1	0.0250	15.0		94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	70-130			

#### Matrix Spike (2527101-MS1)

Source: E507015-02

Prepared: 07/03/25 Analyzed: 07/08/25

Benzene	5.80	0.0250	5.00	ND	116	70-130			
Ethylbenzene	5.60	0.0250	5.00	ND	112	70-130			
Toluene	5.73	0.0250	5.00	ND	115	70-130			
o-Xylene	5.49	0.0250	5.00	ND	110	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	7.58		8.00		94.7	70-130			

#### Matrix Spike Dup (2527101-MSD1)

Source: E507015-02

Prepared: 07/03/25 Analyzed: 07/09/25

Benzene	5.12	0.0250	5.00	ND	102	70-130	12.5	27	
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	70-130	11.6	26	
Toluene	5.07	0.0250	5.00	ND	101	70-130	12.2	20	
o-Xylene	4.86	0.0250	5.00	ND	97.2	70-130	12.2	25	
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130	11.2	23	
Total Xylenes	14.9	0.0250	15.0	ND	99.2	70-130	11.5	26	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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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 (2527101-BLK1)**

Prepared: 07/03/25 Analyzed: 07/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

**LCS (2527101-BS2)**

Prepared: 07/03/25 Analyzed: 07/08/25

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

**Matrix Spike (2527101-MS2)**

Source: E507015-02

Prepared: 07/03/25 Analyzed: 07/09/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

**Matrix Spike Dup (2527101-MSD2)**

Source: E507015-02

Prepared: 07/03/25 Analyzed: 07/09/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	1.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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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 (2528058-BLK1)**

Prepared: 07/08/25 Analyzed: 07/09/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.2		50.0		108	61-141			

**LCS (2528058-BS1)**

Prepared: 07/08/25 Analyzed: 07/09/25

Diesel Range Organics (C10-C28)	279	25.0	250		112	66-144			
Surrogate: <i>n</i> -Nonane	53.8		50.0		108	61-141			

**Matrix Spike (2528058-MS1)**

Source: E507023-07

Prepared: 07/08/25 Analyzed: 07/10/25

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.3	61-141			

**Matrix Spike Dup (2528058-MSD1)**

Source: E507023-07

Prepared: 07/08/25 Analyzed: 07/10/25

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	56-156	5.62	20	
Surrogate: <i>n</i> -Nonane	48.5		50.0		97.0	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/10/2025 4:38:02PM
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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 (2528059-BLK1)**

Prepared: 07/08/25 Analyzed: 07/09/25

Chloride ND 20.0

**LCS (2528059-BS1)**

Prepared: 07/08/25 Analyzed: 07/09/25

Chloride 253 20.0 250 101 90-110

**Matrix Spike (2528059-MS1)**

Source: E507023-03

Prepared: 07/08/25 Analyzed: 07/09/25

Chloride 301 100 250 ND 121 80-120 M6

**Matrix Spike Dup (2528059-MSD1)**

Source: E507023-03

Prepared: 07/08/25 Analyzed: 07/09/25

Chloride 291 100 250 ND 116 80-120 3.53 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/10/25 16:38
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M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.

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

23003-0002 CM 7/1/25

<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: Boros Fed West TB				Address: 3122 National Parks Hwy				E507023		20					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 & Metals	SDWA	CWA	RCRA				
10:34	7/1/2025	S	1	SS01-0'		1						X						4.0			
14:56	7/1/2025	S	1	SS01-1'		2						X						4.6			
10:35	7/1/2025	S	1	SS02-0'		3						X						4.4			
15:02	7/1/2025	S	1	SS02-1'		4						X						3.8			
13:12	7/1/2025	S	1	SS05-0'		5						X						3.5			
15:23	7/1/2025	S	1	SS05-1'		6						X						4.1			
10:45	7/1/2025	S	1	SS06-0'		7						X						4.0			
15:29	7/1/2025	S	1	SS06-1'		8						X						4.8			
13:00	7/1/2025	S	1	SS07-0'		9						X						4.6			
14:49	7/1/2025	S	1	SS07-1'		10						X						4.2			

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmojr@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: Aboubakar Kone

Relinquished by: (Signature) <i>[Signature]</i>	Date 7/2/25	Time 7:11	Received by: (Signature) <i>Michelle Gonzales</i>	Date 7.2.25	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 subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N  T1 _____ T2 _____ T3 _____  AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 7.2.25	Time 1700	Received by: (Signature) <i>J.M.</i>	Date 7.2.25	Time 1700	
Relinquished by: (Signature) <i>J.M.</i>	Date 7.2.25	Time 2400	Received by: (Signature) <i>Caitlin Mann</i>	Date 7.2.25	Time 2400	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date 3 CM	Time CM	

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: 3/2/2026 4:46:35 PM

Page 20 of 21

Received by OCD: 1/23/2026 12:32:01 PM

Page 78 of 304



Envirotech Analytical Laboratory

Printed: 7/3/2025 1:11:23PM

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: 07/03/25 00:00 Work Order ID: E507023
Phone: (972) 371-5200 Date Logged In: 07/02/25 15:08 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 07/10/25 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

Empty box for 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: Boros Fed West TB

Work Order: E507051

Job Number: 23003-0003

Received: 7/8/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/14/25

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: 7/14/25

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



Project Name: Boros Fed West TB  
Workorder: E507051  
Date Received: 7/8/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/8/2025 8:00:00AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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[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: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/14/25 16:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03-0'	E507051-01A	Soil	07/03/25	07/08/25	Glass Jar, 2 oz.
SS03-1'	E507051-02A	Soil	07/03/25	07/08/25	Glass Jar, 2 oz.
SS04-0'	E507051-03A	Soil	07/03/25	07/08/25	Glass Jar, 2 oz.
SS04-1'	E507051-04A	Soil	07/03/25	07/08/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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**SS03-0'**

**E507051-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2528110	
Benzene	ND	0.0250	1	07/09/25	07/11/25	
Ethylbenzene	ND	0.0250	1	07/09/25	07/11/25	
Toluene	ND	0.0250	1	07/09/25	07/11/25	
o-Xylene	ND	0.0250	1	07/09/25	07/11/25	
p,m-Xylene	ND	0.0500	1	07/09/25	07/11/25	
Total Xylenes	ND	0.0250	1	07/09/25	07/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.9 %	70-130	07/09/25	07/11/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2528110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/25	07/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	07/09/25	07/11/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2528127	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/25	07/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/25	07/11/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	07/09/25	07/11/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2528092	
Chloride	ND	40.0	2	07/09/25	07/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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**SS03-1'**

**E507051-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2528110
Benzene	ND	0.0250	1	07/09/25	07/12/25	
Ethylbenzene	ND	0.0250	1	07/09/25	07/12/25	
Toluene	ND	0.0250	1	07/09/25	07/12/25	
o-Xylene	ND	0.0250	1	07/09/25	07/12/25	
p,m-Xylene	ND	0.0500	1	07/09/25	07/12/25	
Total Xylenes	ND	0.0250	1	07/09/25	07/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.3 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2528110
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/25	07/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2528127
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/25	07/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/25	07/11/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	07/09/25	07/11/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2528092
Chloride	203	40.0	2	07/09/25	07/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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**SS04-0'**

**E507051-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2528110
Benzene	ND	0.0250	1	07/09/25	07/12/25	
Ethylbenzene	ND	0.0250	1	07/09/25	07/12/25	
Toluene	ND	0.0250	1	07/09/25	07/12/25	
o-Xylene	ND	0.0250	1	07/09/25	07/12/25	
p,m-Xylene	ND	0.0500	1	07/09/25	07/12/25	
Total Xylenes	ND	0.0250	1	07/09/25	07/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.4 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2528110
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/25	07/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2528127
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/25	07/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/25	07/11/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	07/09/25	07/11/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2528092
Chloride	254	40.0	2	07/09/25	07/10/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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**SS04-1'**

**E507051-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2528110
Benzene	ND	0.0250	1	07/09/25	07/12/25	
Ethylbenzene	ND	0.0250	1	07/09/25	07/12/25	
Toluene	ND	0.0250	1	07/09/25	07/12/25	
o-Xylene	ND	0.0250	1	07/09/25	07/12/25	
p,m-Xylene	ND	0.0500	1	07/09/25	07/12/25	
Total Xylenes	ND	0.0250	1	07/09/25	07/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.2 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2528110
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/25	07/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	07/09/25	07/12/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2528127
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/25	07/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/25	07/11/25	
<i>Surrogate: n-Nonane</i>		97.4 %	61-141	07/09/25	07/11/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2528092
Chloride	277	20.0	1	07/09/25	07/10/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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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 (2528110-BLK1)**

Prepared: 07/09/25 Analyzed: 07/11/25

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	6.84		8.00		85.5	70-130			

**LCS (2528110-BS1)**

Prepared: 07/09/25 Analyzed: 07/11/25

Benzene	5.84	0.0250	5.00		117	70-130			
Ethylbenzene	5.67	0.0250	5.00		113	70-130			
Toluene	5.77	0.0250	5.00		115	70-130			
o-Xylene	5.63	0.0250	5.00		113	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	17.0	0.0250	15.0		114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.85		8.00		85.6	70-130			

**Matrix Spike (2528110-MS1)**

Source: E507051-01

Prepared: 07/09/25 Analyzed: 07/11/25

Benzene	5.09	0.0250	5.00	ND	102	70-130			
Ethylbenzene	4.94	0.0250	5.00	ND	98.7	70-130			
Toluene	5.03	0.0250	5.00	ND	101	70-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	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	6.80		8.00		85.0	70-130			

**Matrix Spike Dup (2528110-MSD1)**

Source: E507051-01

Prepared: 07/09/25 Analyzed: 07/12/25

Benzene	5.82	0.0250	5.00	ND	116	70-130	13.4	27	
Ethylbenzene	5.65	0.0250	5.00	ND	113	70-130	13.5	26	
Toluene	5.75	0.0250	5.00	ND	115	70-130	13.3	20	
o-Xylene	5.57	0.0250	5.00	ND	111	70-130	12.5	25	
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130	13.2	23	
Total Xylenes	17.0	0.0250	15.0	ND	113	70-130	13.0	26	
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.1	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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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 (2528110-BLK1)**

Prepared: 07/09/25 Analyzed: 07/11/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

**LCS (2528110-BS2)**

Prepared: 07/09/25 Analyzed: 07/11/25

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			

**Matrix Spike (2528110-MS2)**

Source: E507051-01

Prepared: 07/09/25 Analyzed: 07/12/25

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

**Matrix Spike Dup (2528110-MSD2)**

Source: E507051-01

Prepared: 07/09/25 Analyzed: 07/12/25

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	8.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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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 (2528127-BLK1)**

Prepared: 07/09/25 Analyzed: 07/11/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.5		50.0		101	61-141			

**LCS (2528127-BS1)**

Prepared: 07/09/25 Analyzed: 07/11/25

Diesel Range Organics (C10-C28)	252	25.0	250		101	66-144			
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	61-141			

**Matrix Spike (2528127-MS1)**

Source: E507067-07

Prepared: 07/09/25 Analyzed: 07/11/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: <i>n</i> -Nonane	50.4		50.0		101	61-141			

**Matrix Spike Dup (2528127-MSD1)**

Source: E507067-07

Prepared: 07/09/25 Analyzed: 07/11/25

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	0.609	20	
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/14/2025 4:53:22PM
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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 (2528092-BLK1)**

Prepared: 07/09/25 Analyzed: 07/10/25

Chloride ND 20.0

**LCS (2528092-BS1)**

Prepared: 07/09/25 Analyzed: 07/10/25

Chloride 255 20.0 250 102 90-110

**Matrix Spike (2528092-MS1)**

Source: E507052-01

Prepared: 07/09/25 Analyzed: 07/10/25

Chloride 256 20.0 250 ND 102 80-120

**Matrix Spike Dup (2528092-MSD1)**

Source: E507052-01

Prepared: 07/09/25 Analyzed: 07/10/25

Chloride 256 20.0 250 ND 102 80-120 0.0524 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: Boros Fed West TB Project Number: 23003-0003 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/14/25 16:53
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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: 3/2/2026 4:46:35 PM

Received by OCD: 1/23/2026 12:32:01 PM

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: Boros Fed West TB				Address: 3122 National Parks Hwy				E507051		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	GRQ/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NIM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
12:34	7/3/2025	S	1	SS03-0'			1						X						3.6		
13:24	7/3/2025	S	1	SS03-1'			2						X						3.2		
13:02	7/3/2025	S	1	SS04-0'			3						X						3.4		
14:21	7/3/2025	S	1	SS04-1'			4						X						3.0		

**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: Aboubakar Kone

Relinquished by: (Signature)	Date: 7/7/25	Time: 7:11	Received by: (Signature)	Date: 7-7-25	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 subsequent days.  Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C _____
Relinquished by: (Signature)	Date: 7-7-25	Time: 1500	Received by: (Signature)	Date: 7-7-25	Time: 1500	
Relinquished by: (Signature)	Date: 7-7-25	Time: 2300	Received by: (Signature)	Date: 7-8-25	Time: 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.

Page 93 of 104

### Envirotech Analytical Laboratory

Printed: 7/8/2025 11:19:15AM

#### 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: 07/08/25 08:00	Work Order ID: E507051
Phone: (972) 371-5200	Date Logged In: 07/07/25 13:23	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 07/14/25 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.

#### 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.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Boros Fed West TB

Work Order: E512162

Job Number: 23003-0002

Received: 12/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/23/25

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: 12/23/25

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



Project Name: Boros Fed West TB  
Workorder: E512162  
Date Received: 12/18/2025 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/18/2025 6:00:00AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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  
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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/25 13:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03A-0'	E512162-01A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
SS04A-0'	E512162-02A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
SS04B-0'	E512162-03A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
SS05A-0'	E512162-04A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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**SS03A-0'**

**E512162-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Benzene	ND	0.0250	1	12/18/25	12/18/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/18/25	
Toluene	ND	0.0250	1	12/18/25	12/18/25	
o-Xylene	ND	0.0250	1	12/18/25	12/18/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/18/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2551111
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	12/18/25	12/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2551122
Chloride	5720	200	10	12/18/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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**SS04A-0'**

**E512162-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Benzene	ND	0.0250	1	12/18/25	12/18/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/18/25	
Toluene	ND	0.0250	1	12/18/25	12/18/25	
o-Xylene	ND	0.0250	1	12/18/25	12/18/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/18/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2551111
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	12/18/25	12/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2551122
Chloride	1760	100	5	12/18/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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**SS04B-0'**

**E512162-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Benzene	ND	0.0250	1	12/18/25	12/18/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/18/25	
Toluene	ND	0.0250	1	12/18/25	12/18/25	
o-Xylene	ND	0.0250	1	12/18/25	12/18/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/18/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2551111
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	12/18/25	12/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2551122
Chloride	328	20.0	1	12/18/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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**SS05A-0'**

**E512162-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Benzene	ND	0.0250	1	12/18/25	12/18/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/18/25	
Toluene	ND	0.0250	1	12/18/25	12/18/25	
o-Xylene	ND	0.0250	1	12/18/25	12/18/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/18/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: MB		Batch: 2551095
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.0 %	70-130	12/18/25	12/18/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2551111
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	12/18/25	12/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2551122
Chloride	16000	400	20	12/18/25	12/23/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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#### Volatile Organics by EPA 8021B

Analyst: MB

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 (2551095-BLK1)**

Prepared: 12/18/25 Analyzed: 12/18/25

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	8.29		8.00		104	70-130			

**LCS (2551095-BS1)**

Prepared: 12/18/25 Analyzed: 12/18/25

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.3	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	4.99	0.0250	5.00		99.7	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			

**Matrix Spike (2551095-MS1)**

Source: E512162-03

Prepared: 12/18/25 Analyzed: 12/18/25

Benzene	5.18	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.04	0.0250	5.00	ND	101	70-130			
Toluene	5.15	0.0250	5.00	ND	103	70-130			
o-Xylene	5.08	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.4	0.0250	15.0	ND	102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

**Matrix Spike Dup (2551095-MSD1)**

Source: E512162-03

Prepared: 12/18/25 Analyzed: 12/18/25

Benzene	5.31	0.0250	5.00	ND	106	70-130	2.50	27	
Ethylbenzene	5.19	0.0250	5.00	ND	104	70-130	2.85	26	
Toluene	5.28	0.0250	5.00	ND	106	70-130	2.53	20	
o-Xylene	5.20	0.0250	5.00	ND	104	70-130	2.39	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	2.73	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	2.62	26	
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

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

**Blank (2551095-BLK1)**

Prepared: 12/18/25 Analyzed: 12/18/25

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

**LCS (2551095-BS2)**

Prepared: 12/18/25 Analyzed: 12/18/25

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.6	70-130		

**Matrix Spike (2551095-MS2)**

Source: E512162-03

Prepared: 12/18/25 Analyzed: 12/18/25

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130		

**Matrix Spike Dup (2551095-MSD2)**

Source: E512162-03

Prepared: 12/18/25 Analyzed: 12/18/25

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0	ND	111	70-130	3.42	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130		



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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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 (2551111-BLK1)**

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	61-141			

**LCS (2551111-BS1)**

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	279	25.0	250		112	66-144			
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	61-141			

**Matrix Spike (2551111-MS1)**

Source: E512157-06

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	301	25.0	250	31.8	108	56-156			
Surrogate: <i>n</i> -Nonane	50.8		50.0		102	61-141			

**Matrix Spike Dup (2551111-MSD1)**

Source: E512157-06

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	319	25.0	250	31.8	115	56-156	5.95	20	
Surrogate: <i>n</i> -Nonane	53.9		50.0		108	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/2025 1:24:29PM
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#### Anions by EPA 300.0/9056A

Analyst: TP

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 (2551122-BLK1)**

Prepared: 12/18/25 Analyzed: 12/22/25

Chloride ND 20.0

**LCS (2551122-BS1)**

Prepared: 12/18/25 Analyzed: 12/22/25

Chloride 264 20.0 250 105 90-110

**Matrix Spike (2551122-MS1)**

Source: E512156-04

Prepared: 12/18/25 Analyzed: 12/22/25

Chloride 10800 200 250 10600 105 80-120

**Matrix Spike Dup (2551122-MSD1)**

Source: E512156-04

Prepared: 12/18/25 Analyzed: 12/22/25

Chloride 11000 200 250 10600 157 80-120 1.19 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/23/25 13:24
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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: Boros Fed West TB				Address: 3122 National Parks Hwy				E 512162		23003-0002					x	x																																																																																																				
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220				<table border="1"> <thead> <tr> <th colspan="8">Analysis and Method</th> <th colspan="4">EPA Program</th> </tr> <tr> <td rowspan="2">DRO/DRO by 8015</td> <td rowspan="2">GRO/DRO by 8015</td> <td rowspan="2">BTEX by 8021</td> <td rowspan="2">VOC by 8260</td> <td rowspan="2">Chloride 300.0</td> <td rowspan="2">TCEQ 1005 - TX</td> <td rowspan="2">RCRA 8 Metals</td> <td rowspan="2">BGDOC - NM</td> <td rowspan="2">BGDOC - TX</td> <td>SDWA</td> <td>CWA</td> <td colspan="2">RCRA</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8"></td> <td colspan="4">Compliance</td> </tr> <tr> <td colspan="8"></td> <td colspan="4">Y or N</td> </tr> <tr> <td colspan="8"></td> <td colspan="4">PWSID #</td> </tr> <tr> <td colspan="8"></td> <td colspan="4">Sample Temp</td> </tr> <tr> <td colspan="8"></td> <td colspan="4">Remarks</td> </tr> </thead> </table>								Analysis and Method								EPA Program				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														Compliance												Y or N												PWSID #												Sample Temp												Remarks				Phone: 575-988-0055				Email: agioveno@ensolum.com				Miscellaneous:			
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11:37	12/16/2025	Soil	1	SS03A - 0'		1								X		1.8																																																																																																				
11:43	12/16/2025	Soil	1	SS04A - 0'		2								X		1.3																																																																																																				
12:28	12/16/2025	Soil	1	SS04B - 0'		3								X		2.2																																																																																																				
11:48	12/16/2025	Soil	1	SS05A - 0'		4								X		2.1																																																																																																				
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: Israel Estrella																																																																																																																				
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: (Y) N																																																																																																														
<i>[Signature]</i>	12/17/25	7:11	Michelle Gonzales	12-17-25	0711																																																																																																															
Michelle Gonzales	12-17-25	1515	Nathan Gonzales	12-17-25	1515																																																																																																															
Nathan Gonzales	12-17-25	1945	<i>[Signature]</i>	12-17-25	1545																																																																																																															
<i>[Signature]</i>	12-17-25	2330	Nee Sater	12-18-25	0600																																																																																																															
<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: 12/18/2025 9:19:00AM

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: 12/18/25 06:00 Work Order ID: E512162
Phone: (972) 371-5200 Date Logged In: 12/17/25 15:37 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 12/29/25 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

Comments/Resolution box containing L-NS and R-NV.

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: Boros Fed West TB

Work Order: E507166

Job Number: 23003-0002

Received: 7/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/23/25

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: 7/23/25



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

Project Name: Boros Fed West TB  
Workorder: E507166  
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: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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[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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/23/25 12:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E507166-01A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH01-1'	E507166-02A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH01-2'	E507166-03A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH02-0'	E507166-04A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH02-1'	E507166-05A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH02-3'	E507166-06A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH03-0'	E507166-07A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH03-1'	E507166-08A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH03-2'	E507166-09A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH04-0'	E507166-10A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH04-1'	E507166-11A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH04-2'	E507166-12A	Soil	07/14/25	07/16/25	Glass Jar, 2 oz.
BH04-3'	E507166-13A	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH01-0'**  
**E507166-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		98.6 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	8650	200	10	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH01-1'**  
**E507166-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		97.5 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2529208
Chloride	540	100	5	07/19/25	07/21/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH01-2'**  
**E507166-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		96.0 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2529208
Chloride	100	40.0	2	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH02-0'**  
**E507166-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		93.2 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	13100	400	20	07/19/25	07/22/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH02-1'**  
**E507166-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		94.4 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	ND	200	10	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH02-3'**  
**E507166-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		92.8 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	256	40.0	2	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH03-0'**  
**E507166-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	<b>59.4</b>	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	<b>73.9</b>	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		89.5 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	<b>19600</b>	400	20	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH03-1'**

**E507166-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		91.1 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	6610	200	10	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH03-2'**  
**E507166-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		95.0 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2529208
Chloride	6460	200	10	07/19/25	07/22/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH04-0'**  
**E507166-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	<b>0.0620</b>	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	<b>0.282</b>	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	<b>0.677</b>	0.0500	1	07/16/25	07/19/25	
Total Xylenes	<b>0.959</b>	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	<b>25.3</b>	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	<b>6800</b>	25.0	1	07/18/25	07/20/25	
Oil Range Organics (C28-C36)	<b>3570</b>	50.0	1	07/18/25	07/20/25	
<i>Surrogate: n-Nonane</i>		96.2 %	61-141	07/18/25	07/20/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2529208
Chloride	<b>10600</b>	200	10	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH04-1'**  
**E507166-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	72.2	25.0	1	07/18/25	07/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/21/25	
<i>Surrogate: n-Nonane</i>		90.8 %	61-141	07/18/25	07/21/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	10700	400	20	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH04-2'**  
**E507166-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	65.8	25.0	1	07/18/25	07/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/25	07/21/25	
<i>Surrogate: n-Nonane</i>		90.5 %	61-141	07/18/25	07/21/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	6970	200	10	07/19/25	07/22/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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**BH04-3'**  
**E507166-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529111
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/16/25	07/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529178
Diesel Range Organics (C10-C28)	84.0	25.0	1	07/18/25	07/21/25	
Oil Range Organics (C28-C36)	55.5	50.0	1	07/18/25	07/21/25	
<i>Surrogate: n-Nonane</i>		92.0 %	61-141	07/18/25	07/21/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529208
Chloride	9440	200	10	07/19/25	07/22/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/23/2025 12:29:43PM
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#### Volatile Organic Compounds by EPA 8260B

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 (2529111-BLK1)

Prepared: 07/16/25 Analyzed: 07/19/25

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: Bromofluorobenzene	0.510		0.500		102		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3		70-130		
Surrogate: Toluene-d8	0.507		0.500		101		70-130		

#### LCS (2529111-BS1)

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.38	0.0250	2.50		95.3		70-130		
Ethylbenzene	2.49	0.0250	2.50		99.6		70-130		
Toluene	2.41	0.0250	2.50		96.3		70-130		
o-Xylene	2.40	0.0250	2.50		95.9		70-130		
p,m-Xylene	4.94	0.0500	5.00		98.7		70-130		
Total Xylenes	7.34	0.0250	7.50		97.8		70-130		
Surrogate: Bromofluorobenzene	0.514		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0		70-130		
Surrogate: Toluene-d8	0.510		0.500		102		70-130		

#### Matrix Spike (2529111-MS1)

Source: E507166-06

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.44	0.0250	2.50	ND	97.6		48-131		
Ethylbenzene	2.53	0.0250	2.50	ND	101		45-135		
Toluene	2.43	0.0250	2.50	ND	97.2		48-130		
o-Xylene	2.43	0.0250	2.50	ND	97.0		43-135		
p,m-Xylene	5.00	0.0500	5.00	ND	100		43-135		
Total Xylenes	7.43	0.0250	7.50	ND	99.0		43-135		
Surrogate: Bromofluorobenzene	0.504		0.500		101		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100		70-130		
Surrogate: Toluene-d8	0.505		0.500		101		70-130		

#### Matrix Spike Dup (2529111-MSD1)

Source: E507166-06

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.47	0.0250	2.50	ND	98.8		48-131	1.16	23
Ethylbenzene	2.55	0.0250	2.50	ND	102		45-135	0.473	27
Toluene	2.47	0.0250	2.50	ND	98.9		48-130	1.75	24
o-Xylene	2.48	0.0250	2.50	ND	99.1		43-135	2.14	27
p,m-Xylene	5.11	0.0500	5.00	ND	102		43-135	2.14	27
Total Xylenes	7.59	0.0250	7.50	ND	101		43-135	2.14	27
Surrogate: Bromofluorobenzene	0.514		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104		70-130		
Surrogate: Toluene-d8	0.504		0.500		101		70-130		



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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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 (2529111-BLK1)**

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

**LCS (2529111-BS2)**

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

**Matrix Spike (2529111-MS2)**

Source: E507166-06

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

**Matrix Spike Dup (2529111-MSD2)**

Source: E507166-06

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	1.09	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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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 (2529178-BLK1)**

Prepared: 07/18/25 Analyzed: 07/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		92.9	61-141			

**LCS (2529178-BS1)**

Prepared: 07/18/25 Analyzed: 07/20/25

Diesel Range Organics (C10-C28)	264	25.0	250		106	66-144			
Surrogate: n-Nonane	44.8		50.0		89.5	61-141			

**Matrix Spike (2529178-MS1)**

Source: E507166-02

Prepared: 07/18/25 Analyzed: 07/20/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	47.5		50.0		94.9	61-141			

**Matrix Spike Dup (2529178-MSD1)**

Source: E507166-02

Prepared: 07/18/25 Analyzed: 07/20/25

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	7.07	20	
Surrogate: n-Nonane	49.1		50.0		98.2	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/23/2025 12:29:43PM
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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 (2529208-BLK1)**

Prepared: 07/19/25 Analyzed: 07/21/25

Chloride ND 20.0

**LCS (2529208-BS1)**

Prepared: 07/19/25 Analyzed: 07/21/25

Chloride 254 20.0 250 101 90-110

**Matrix Spike (2529208-MS1)**

Source: E507166-02

Prepared: 07/19/25 Analyzed: 07/21/25

Chloride 766 100 250 540 90.7 80-120

**Matrix Spike Dup (2529208-MSD1)**

Source: E507166-02

Prepared: 07/19/25 Analyzed: 07/22/25

Chloride 747 100 250 540 83.0 80-120 2.53 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 07/23/25 12:29
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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: 3/2/2026 4:46:35 PM

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Received by OCD: 1/23/2026 12:32:01 PM

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: Boros Fed West TB				Address: 3122 National Parks Hwy				E507166		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	BGDOC - NM	TCEQ 1005 - TX	PCRA 8 Metals	SDWA	CWA	RCRA			
12:55	7/14/2025	S	1	BH01-0'			1						X						2.8		
13:01	7/14/2025	S	1	BH01-1'			2						X						2.6		
13:05	7/14/2025	S	1	BH01-2'			3						X						1.8		
13:10	7/14/2025	S	1	BH02-0'			4						X						2.0		
13:18	7/14/2025	S	1	BH02-1'			5						X						2.2		
13:23	7/14/2025	S	1	BH02-3'			6						X						2.4		

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: \_\_\_\_\_ Aboubakar Kone

Relinquished by: (Signature)	Date: 7/15/25	Time: 7:11	Received by: (Signature)	Date: 7-15-25	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 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: 7-15-25	Time: 1730	Received by: (Signature)	Date: 7.15.25	Time: 1730	
Relinquished by: (Signature)	Date: 7.15.25	Time: 2215	Received by: (Signature)	Date: 7-16-25	Time: 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.



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Chain of Custody

Released to Imaging: 3/2/2026 4:46:35 PM

Received by OCD: 1/23/2026 12:32:01 PM

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: Boros Fed West TB				Address: 3122 National Parks Hwy				E567166		23003-0007					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks
14:33	7/14/2025	S	1	BH03-0'			7						X											3.0
14:57	7/14/2025	S	1	BH03-1'			8						X											3.1
15:30	7/14/2025	S	1	BH03-2'			9						X											2.6
15:40	7/14/2025	S	1	BH04-0'			10						X											2.4
15:45	7/14/2025	S	1	BH04-1'			11						X											3.0
15:49	7/14/2025	S	1	BH04-2'			12						X											2.6
16:07	7/14/2025	S	1	BH04-3'			13						X											2.8

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.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: 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="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
<i>[Signature]</i>	7/15/25	7:11	<i>Marissa Gonzalez</i>	7-15-25	0711	
<i>Marissa Gonzalez</i>	7-15-25	1730	<i>J. J.</i>	7-15-25	1730	
<i>A. M.</i>	7-15-25	2215	<i>Carth Ma</i>	7-16-25	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: 7/16/2025 9:32:31AM

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: E507166
Phone: (972) 371-5200 Date Logged In: 07/15/25 16:21 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 07/23/25 17:00 (5 day TAT)

Chain of Custody (COC)

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

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: Boros Fed West TB

Work Order: E507325

Job Number: 23003-0002

Received: 7/29/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/4/25

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: 8/4/25

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



Project Name: Boros Fed West TB  
Workorder: E507325  
Date Received: 7/29/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2025 7:30:00AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/04/25 16:43
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03-3'	E507325-01A	Soil	07/25/25	07/29/25	Glass Jar, 2 oz.
BH04-4'	E507325-02A	Soil	07/25/25	07/29/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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**BH03-3'**  
**E507325-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2531086
Benzene	ND	0.0250	1	07/30/25	07/31/25	
Ethylbenzene	ND	0.0250	1	07/30/25	07/31/25	
Toluene	ND	0.0250	1	07/30/25	07/31/25	
o-Xylene	ND	0.0250	1	07/30/25	07/31/25	
p,m-Xylene	ND	0.0500	1	07/30/25	07/31/25	
Total Xylenes	ND	0.0250	1	07/30/25	07/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.5 %	70-130	07/30/25	07/31/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2531086
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/25	07/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %	70-130	07/30/25	07/31/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: HM		Batch: 2531120
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/25	08/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/25	08/01/25	
<i>Surrogate: n-Nonane</i>		84.9 %	61-141	07/31/25	08/01/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: JM		Batch: 2531101
Chloride	38.6	20.0	1	07/30/25	07/31/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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**BH04-4'**  
**E507325-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2531086
Benzene	ND	0.0250	1	07/30/25	07/31/25	
Ethylbenzene	ND	0.0250	1	07/30/25	07/31/25	
Toluene	ND	0.0250	1	07/30/25	07/31/25	
o-Xylene	ND	0.0250	1	07/30/25	07/31/25	
p,m-Xylene	ND	0.0500	1	07/30/25	07/31/25	
Total Xylenes	ND	0.0250	1	07/30/25	07/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	07/30/25	07/31/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2531086
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/25	07/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	07/30/25	07/31/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2531120
Diesel Range Organics (C10-C28)	393	25.0	1	07/31/25	08/01/25	
Oil Range Organics (C28-C36)	226	50.0	1	07/31/25	08/01/25	
<i>Surrogate: n-Nonane</i>		84.9 %	61-141	07/31/25	08/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2531101
Chloride	5150	100	5	07/30/25	07/31/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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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 (2531086-BLK1)**

Prepared: 07/30/25 Analyzed: 07/31/25

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	7.59		8.00		94.8	70-130			

**LCS (2531086-BS1)**

Prepared: 07/30/25 Analyzed: 08/01/25

Benzene	4.62	0.0250	5.00		92.4	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.9	70-130			
Toluene	4.62	0.0250	5.00		92.5	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.37	0.0500	10.0		93.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

**Matrix Spike (2531086-MS1)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 08/01/25

Benzene	4.53	0.0250	5.00	ND	90.5	70-130			
Ethylbenzene	4.50	0.0250	5.00	ND	90.0	70-130			
Toluene	4.53	0.0250	5.00	ND	90.6	70-130			
o-Xylene	4.57	0.0250	5.00	ND	91.4	70-130			
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	70-130			
Total Xylenes	13.7	0.0250	15.0	ND	91.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

**Matrix Spike Dup (2531086-MSD1)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 08/01/25

Benzene	5.40	0.0250	5.00	ND	108	70-130	17.6	27	
Ethylbenzene	5.37	0.0250	5.00	ND	107	70-130	17.8	26	
Toluene	5.40	0.0250	5.00	ND	108	70-130	17.6	20	
o-Xylene	5.41	0.0250	5.00	ND	108	70-130	16.8	25	
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130	17.5	23	
Total Xylenes	16.3	0.0250	15.0	ND	109	70-130	17.3	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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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 (2531086-BLK1)**

Prepared: 07/30/25 Analyzed: 07/31/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

**LCS (2531086-BS2)**

Prepared: 07/30/25 Analyzed: 08/01/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.4	70-130			

**Matrix Spike (2531086-MS2)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 08/01/25

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.10		8.00		101	70-130			

**Matrix Spike Dup (2531086-MSD2)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 08/01/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	9.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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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 (2531120-BLK1)**

Prepared: 07/31/25 Analyzed: 07/31/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.4		50.0		84.9	61-141			

**LCS (2531120-BS1)**

Prepared: 07/31/25 Analyzed: 07/31/25

Diesel Range Organics (C10-C28)	236	25.0	250		94.2	66-144			
Surrogate: n-Nonane	41.5		50.0		82.9	61-141			

**Matrix Spike (2531120-MS1)**

Source: E507323-09

Prepared: 07/31/25 Analyzed: 08/02/25

Diesel Range Organics (C10-C28)	85600	500	250	89100	NR	56-156			M4
Surrogate: n-Nonane	57.0		50.0		114	61-141			

**Matrix Spike Dup (2531120-MSD1)**

Source: E507323-09

Prepared: 07/31/25 Analyzed: 08/02/25

Diesel Range Organics (C10-C28)	83700	500	250	89100	NR	56-156	2.21	20	M4
Surrogate: n-Nonane	59.6		50.0		119	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/4/2025 4:43:24PM
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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 (2531101-BLK1)**

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride ND 20.0

**LCS (2531101-BS1)**

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride 254 20.0 250 102 90-110

**Matrix Spike (2531101-MS1)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride 254 20.0 250 ND 102 80-120

**Matrix Spike Dup (2531101-MSD1)**

Source: E507320-83

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride 254 20.0 250 ND 102 80-120 0.158 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/04/25 16:43
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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.



Chain of Custody

Received by OCD: 1/23/2026 12:32:01 PM

<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: Boros Fed West TB				Address: 3122 National Parks Hwy				E601325		623003-0002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information												Analysis and Method						EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA & Metals	SDWA	CWA	RCRA				
10:25	7/25/2025	S	1	BH03-3'			1						X						Compliance	Y	or	N
11:27	7/25/2025	S	1	BH04-4'			2						X						PWSID #			
																			Remarks			

**Additional Instructions:** Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.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: \_\_\_\_\_ Aboubakar Kone

Relinquished by: (Signature) <i>[Signature]</i>	Date 7/28/25	Time 7:11	Received by: (Signature) <i>Michelle Gonzales</i>	Date 7-28-25	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 subsequent days.  Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N  T1 _____ T2 _____ T3 _____  AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 7-28-25	Time 1500	Received by: (Signature) <i>Marissa Gonzales</i>	Date 7-28-25	Time 1500	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 7-28-25	Time 1845	Received by: (Signature) <i>L.M.</i>	Date 7-28-25	Time 1845	
Relinquished by: (Signature) <i>L.M.</i>	Date 7-28-25	Time 2300	Received by: (Signature) <i>Carth Ma</i>	Date 7-29-25	Time 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.

Released to Imaging: 3/2/2026 4:46:35 PM





Envirotech Analytical Laboratory

Printed: 7/29/2025 9:42:58AM

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: 07/29/25 07:30 Work Order ID: E507325
Phone: (972) 371-5200 Date Logged In: 07/28/25 15:03 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 08/04/25 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: Boros Fed West TB

Work Order: E508051

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/13/25

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: 8/13/25



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

Project Name: Boros Fed West TB  
Workorder: E508051  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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  
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**Michelle Gonzales**  
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Office: 505-421-LABS(5227)  
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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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/13/25 15:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-16'	E508051-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:32:04PM
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**BH04-16'**  
**E508051-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532067
Benzene	ND	0.0250	1	08/06/25	08/09/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/09/25	
Toluene	ND	0.0250	1	08/06/25	08/09/25	
o-Xylene	ND	0.0250	1	08/06/25	08/09/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/09/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.4 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2533037
Diesel Range Organics (C10-C28)	381	25.0	1	08/12/25	08/13/25	
Oil Range Organics (C28-C36)	261	50.0	1	08/12/25	08/13/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	08/12/25	08/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532085
Chloride	280	20.0	1	08/06/25	08/07/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:32:04PM
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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 (2532067-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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	6.99		8.00		87.4	70-130			

**LCS (2532067-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.75	0.0250	5.00		115	70-130			
Ethylbenzene	5.59	0.0250	5.00		112	70-130			
Toluene	5.70	0.0250	5.00		114	70-130			
o-Xylene	5.52	0.0250	5.00		110	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.8	0.0250	15.0		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00		86.2	70-130			

**Matrix Spike (2532067-MS1)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.62	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.49	0.0250	5.00	ND	110	70-130			
Toluene	5.59	0.0250	5.00	ND	112	70-130			
o-Xylene	5.42	0.0250	5.00	ND	108	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.5	0.0250	15.0	ND	110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.01		8.00		87.6	70-130			

**Matrix Spike Dup (2532067-MSD1)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.89	0.0250	5.00	ND	118	70-130	4.65	27	
Ethylbenzene	5.76	0.0250	5.00	ND	115	70-130	4.93	26	
Toluene	5.86	0.0250	5.00	ND	117	70-130	4.70	20	
o-Xylene	5.70	0.0250	5.00	ND	114	70-130	4.94	25	
p,m-Xylene	11.6	0.0500	10.0	ND	116	70-130	5.01	23	
Total Xylenes	17.3	0.0250	15.0	ND	115	70-130	4.99	26	
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:32:04PM
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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 (2532067-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

**LCS (2532067-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

**Matrix Spike (2532067-MS2)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

**Matrix Spike Dup (2532067-MSD2)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:32:04PM
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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 (2533037-BLK1)**

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	59.3		50.0		119	61-141			

**LCS (2533037-BS1)**

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	51.0		50.0		102	61-141			

**Matrix Spike (2533037-MS1)**

Source: E508114-07

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	336	25.0	250	64.1	109	56-156			
Surrogate: <i>n</i> -Nonane	54.9		50.0		110	61-141			

**Matrix Spike Dup (2533037-MSD1)**

Source: E508114-07

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	319	25.0	250	64.1	102	56-156	5.27	20	
Surrogate: <i>n</i> -Nonane	55.8		50.0		112	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:32:04PM
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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 (2532085-BLK1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride ND 20.0

**LCS (2532085-BS1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 257 20.0 250 103 90-110

**Matrix Spike (2532085-MS1)**

Source: E508033-03

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 11100 200 250 11500 NR 80-120 M4

**Matrix Spike Dup (2532085-MSD1)**

Source: E508033-03

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 10800 200 250 11500 NR 80-120 3.20 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/13/25 15:32
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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: Boros Fed West TB				Address: 3122 National Parks Hwy				E508051		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		
1405	8/4/25	S	1	BH04-16'		1								X						
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana																				
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: (Y) N														
<i>Uriel Santillana</i>	8/5/25	900	<i>Michelle Gonzales</i>	8.5.25	0900															
<i>Michelle Gonzales</i>	8.5.25	1500	<i>Marissa Gonzales</i>	8-5-25	1500															
<i>Marissa Gonzales</i>	8-5-25	1915	<i>Andrew Musso</i>	8.5.25	1915															
<i>Andrew Musso</i>	8.5.25	2330	<i>Caiti Maus</i>	8.6.25	030															
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time															
						Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



### Envirotech Analytical Laboratory

Printed: 8/6/2025 8:48:03AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 08/06/25 06:30	Work Order ID: E508051
Phone: (972) 371-5200	Date Logged In: 08/05/25 15:24	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 08/12/25 07:00 (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.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Boros Fed West TB

Work Order: E508052

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/13/25

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: 8/13/25

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



Project Name: Boros Fed West TB  
Workorder: E508052  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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**

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Laboratory Technical Representative  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/13/25 15:33
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-18'	E508052-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:33:52PM
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**BH04-18'**  
**E508052-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532067
Benzene	ND	0.0250	1	08/06/25	08/09/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/09/25	
Toluene	ND	0.0250	1	08/06/25	08/09/25	
o-Xylene	ND	0.0250	1	08/06/25	08/09/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/09/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.1 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2533037
Diesel Range Organics (C10-C28)	112	25.0	1	08/12/25	08/13/25	
Oil Range Organics (C28-C36)	96.5	50.0	1	08/12/25	08/13/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	08/12/25	08/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532085
Chloride	215	20.0	1	08/06/25	08/07/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:33:52PM
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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 (2532067-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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	6.99		8.00		87.4	70-130			

**LCS (2532067-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.75	0.0250	5.00		115	70-130			
Ethylbenzene	5.59	0.0250	5.00		112	70-130			
Toluene	5.70	0.0250	5.00		114	70-130			
o-Xylene	5.52	0.0250	5.00		110	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.8	0.0250	15.0		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00		86.2	70-130			

**Matrix Spike (2532067-MS1)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.62	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.49	0.0250	5.00	ND	110	70-130			
Toluene	5.59	0.0250	5.00	ND	112	70-130			
o-Xylene	5.42	0.0250	5.00	ND	108	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.5	0.0250	15.0	ND	110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.01		8.00		87.6	70-130			

**Matrix Spike Dup (2532067-MSD1)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.89	0.0250	5.00	ND	118	70-130	4.65	27	
Ethylbenzene	5.76	0.0250	5.00	ND	115	70-130	4.93	26	
Toluene	5.86	0.0250	5.00	ND	117	70-130	4.70	20	
o-Xylene	5.70	0.0250	5.00	ND	114	70-130	4.94	25	
p,m-Xylene	11.6	0.0500	10.0	ND	116	70-130	5.01	23	
Total Xylenes	17.3	0.0250	15.0	ND	115	70-130	4.99	26	
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:33:52PM
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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 (2532067-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

**LCS (2532067-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

**Matrix Spike (2532067-MS2)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

**Matrix Spike Dup (2532067-MSD2)**

Source: E508033-09

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:33:52PM
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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 (2533037-BLK1)**

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	61-141			

**LCS (2533037-BS1)**

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: n-Nonane	51.0		50.0		102	61-141			

**Matrix Spike (2533037-MS1)**

Source: E508114-07

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	336	25.0	250	64.1	109	56-156			
Surrogate: n-Nonane	54.9		50.0		110	61-141			

**Matrix Spike Dup (2533037-MSD1)**

Source: E508114-07

Prepared: 08/12/25 Analyzed: 08/12/25

Diesel Range Organics (C10-C28)	319	25.0	250	64.1	102	56-156	5.27	20	
Surrogate: n-Nonane	55.8		50.0		112	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/13/2025 3:33:52PM
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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 (2532085-BLK1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride ND 20.0

**LCS (2532085-BS1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 257 20.0 250 103 90-110

**Matrix Spike (2532085-MS1)**

Source: E508033-03

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 11100 200 250 11500 NR 80-120 M4

**Matrix Spike Dup (2532085-MSD1)**

Source: E508033-03

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 10800 200 250 11500 NR 80-120 3.20 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/13/25 15:33
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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: Boros Fed West TB				Address: 3122 National Parks Hwy				E508052		83003.0002					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			
1446	8/4/25	S	1	BH04-18'		1								X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana																					
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: (Y) N															
<i>[Signature]</i>	8/5/25	900	Michelle Gonzales	8.5.25	0900																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Michelle Gonzales	8.5.25	1500	Marissa Gonzales	8.5.25	1500																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Marissa Gonzales	8.5.25	1915	Andrew Musso	8.5.25	1915																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Andrew Musso	8.5.25	2330	Carth Maw	8.6.25	030																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
						Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															
										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Envirotech Analytical Laboratory

Printed: 8/6/2025 9:07:27AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 08/06/25 06:30 Work Order ID: E508052
Phone: (972) 371-5200 Date Logged In: 08/05/25 15:25 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 08/12/25 07:00 (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

Empty box for 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: Boros Fed West TB

Work Order: E508053

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/11/25

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: 8/11/25



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

Project Name: Boros Fed West TB  
Workorder: E508053  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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Field Offices:

**Southern New Mexico Area**

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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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/11/25 16:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-20'	E508053-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/11/2025 4:55:48PM
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**BH04-20'**  
**E508053-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532068
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532068
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2532124
Diesel Range Organics (C10-C28)	261	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	153	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		95.6 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532089
Chloride	212	20.0	1	08/06/25	08/07/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/11/2025 4:55:48PM
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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 (2532068-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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 (2532068-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.25	0.0250	5.00		85.0	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130			
Toluene	4.24	0.0250	5.00		84.8	70-130			
o-Xylene	4.30	0.0250	5.00		86.1	70-130			
p,m-Xylene	8.53	0.0500	10.0		85.3	70-130			
Total Xylenes	12.8	0.0250	15.0		85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			

**Matrix Spike (2532068-MS1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.01	0.0250	5.00	ND	80.2	70-130			
Ethylbenzene	3.95	0.0250	5.00	ND	78.9	70-130			
Toluene	4.00	0.0250	5.00	ND	80.0	70-130			
o-Xylene	4.08	0.0250	5.00	ND	81.6	70-130			
p,m-Xylene	8.08	0.0500	10.0	ND	80.8	70-130			
Total Xylenes	12.2	0.0250	15.0	ND	81.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

**Matrix Spike Dup (2532068-MSD1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.34	0.0250	5.00	ND	86.7	70-130	7.79	27	
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	70-130	9.07	26	
Toluene	4.34	0.0250	5.00	ND	86.8	70-130	8.13	20	
o-Xylene	4.35	0.0250	5.00	ND	86.9	70-130	6.29	25	
p,m-Xylene	8.80	0.0500	10.0	ND	88.0	70-130	8.47	23	
Total Xylenes	13.1	0.0250	15.0	ND	87.6	70-130	7.74	26	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/11/2025 4:55:48PM
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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 (2532068-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		8.00		99.7	70-130			

**LCS (2532068-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

**Matrix Spike (2532068-MS2)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

**Matrix Spike Dup (2532068-MSD2)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	13.3	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/11/2025 4:55:48PM
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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 (2532124-BLK1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.5	61-141			

**LCS (2532124-BS1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.9	61-141			

**Matrix Spike (2532124-MS1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	61-141			

**Matrix Spike Dup (2532124-MSD1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156	4.22	20	
Surrogate: <i>n</i> -Nonane	50.0		50.0		99.9	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/11/2025 4:55:48PM
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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 (2532089-BLK1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride ND 20.0

**LCS (2532089-BS1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 250 20.0 250 99.9 90-110

**Matrix Spike (2532089-MS1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 474 20.0 250 243 92.4 80-120

**Matrix Spike Dup (2532089-MSD1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 483 20.0 250 243 96.0 80-120 1.89 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/11/25 16:55
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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: Boros Fed West TB				Address: 3122 National Parks Hwy				E 5080532		3003-0002					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			
1530	8/14/25	S	1	BH04-20		1								X							
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana																					
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: (Y) N															
<i>U. Santillana</i>	8/5/25	9:00	<i>Michelle Gonzales</i>	8-5-25	0900																
<i>Michelle Gonzales</i>	8-5-25	1500	<i>Marissa Gonzales</i>	8-5-25	1500																
<i>Marissa Gonzales</i>	8-5-25	1915	<i>Andrew Musso</i>	8.5.25	1915																
<i>Andrew Musso</i>	8.5.25	2330	<i>Cathy Mann</i>	8-6-25	0330																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
						Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



### Envirotech Analytical Laboratory

Printed: 8/6/2025 9:08:53AM

#### 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: 08/06/25 06:30	Work Order ID: E508053
Phone: (972) 371-5200	Date Logged In: 08/05/25 15:26	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 08/12/25 07:00 (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.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Boros Fed West TB

Work Order: E508054

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/12/25

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: 8/12/25

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



Project Name: Boros Fed West TB  
Workorder: E508054  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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Field Offices:

**Southern New Mexico Area**

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

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

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

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### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-22'	E508054-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:37:42AM
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**BH04-22'**  
**E508054-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532068
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532068
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2532124
Diesel Range Organics (C10-C28)	29.7	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		94.5 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532089
Chloride	51.2	20.0	1	08/06/25	08/07/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:37:42AM
---	---	---

#### 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 (2532068-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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 (2532068-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.25	0.0250	5.00		85.0	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130			
Toluene	4.24	0.0250	5.00		84.8	70-130			
o-Xylene	4.30	0.0250	5.00		86.1	70-130			
p,m-Xylene	8.53	0.0500	10.0		85.3	70-130			
Total Xylenes	12.8	0.0250	15.0		85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			

**Matrix Spike (2532068-MS1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.01	0.0250	5.00	ND	80.2	70-130			
Ethylbenzene	3.95	0.0250	5.00	ND	78.9	70-130			
Toluene	4.00	0.0250	5.00	ND	80.0	70-130			
o-Xylene	4.08	0.0250	5.00	ND	81.6	70-130			
p,m-Xylene	8.08	0.0500	10.0	ND	80.8	70-130			
Total Xylenes	12.2	0.0250	15.0	ND	81.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

**Matrix Spike Dup (2532068-MSD1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.34	0.0250	5.00	ND	86.7	70-130	7.79	27	
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	70-130	9.07	26	
Toluene	4.34	0.0250	5.00	ND	86.8	70-130	8.13	20	
o-Xylene	4.35	0.0250	5.00	ND	86.9	70-130	6.29	25	
p,m-Xylene	8.80	0.0500	10.0	ND	88.0	70-130	8.47	23	
Total Xylenes	13.1	0.0250	15.0	ND	87.6	70-130	7.74	26	
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:37:42AM
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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 (2532068-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		8.00		99.7	70-130			

**LCS (2532068-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

**Matrix Spike (2532068-MS2)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

**Matrix Spike Dup (2532068-MSD2)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	13.3	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:37:42AM
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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 (2532124-BLK1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.5	61-141			

**LCS (2532124-BS1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.9	61-141			

**Matrix Spike (2532124-MS1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	61-141			

**Matrix Spike Dup (2532124-MSD1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156	4.22	20	
Surrogate: <i>n</i> -Nonane	50.0		50.0		99.9	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:37:42AM
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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 (2532089-BLK1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride ND 20.0

**LCS (2532089-BS1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 250 20.0 250 99.9 90-110

**Matrix Spike (2532089-MS1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 474 20.0 250 243 92.4 80-120

**Matrix Spike Dup (2532089-MSD1)**

Source: E508034-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride 483 20.0 250 243 96.0 80-120 1.89 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:37
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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: Boros Fed West TB				Address: 3122 National Parks Hwy				E508054		83030002					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		
10/18	8/4/25	S	1	BH04-22'		1								X						

**Additional Instructions:** Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana						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: (Y) N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	8/5/25	900	Michelle Gonzales	8.5.25	0900						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Michelle Gonzales	7.5.25	1500	Marissa Gonzales	8-5-25	1500						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Marissa Gonzales	8-5-25	1915	Andrew Musso	8.5.25	1915						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
Andrew Musso	8.5.25	2330	Chith Man	8.10.25	030						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

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

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



### Envirotech Analytical Laboratory

Printed: 8/6/2025 9:14:35AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 08/06/25 06:30	Work Order ID: E508054
Phone: (972) 371-5200	Date Logged In: 08/05/25 15:27	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 08/12/25 07:00 (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.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Boros Fed West TB

Work Order: E508055

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/12/25

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: 8/12/25



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

Project Name: Boros Fed West TB  
Workorder: E508055  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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Laboratory Technical Representative  
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**Michelle Gonzales**  
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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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Definitions and Notes	10
Chain of Custody etc.	11

### Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-24'	E508055-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:40:05AM
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**BH04-24'**  
**E508055-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532079
Benzene	ND	0.0250	1	08/06/25	08/09/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/09/25	
Toluene	ND	0.0250	1	08/06/25	08/09/25	
o-Xylene	ND	0.0250	1	08/06/25	08/09/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/09/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	08/06/25	08/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2532124
Diesel Range Organics (C10-C28)	59.1	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		96.0 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532091
Chloride	104	20.0	1	08/06/25	08/07/25	





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:40:05AM
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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 (2532079-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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	7.95		8.00		99.4	70-130			

**LCS (2532079-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.87	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.91	0.0250	5.00		98.1	70-130			
o-Xylene	4.98	0.0250	5.00		99.7	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

**Matrix Spike (2532079-MS1)**

Source: E508039-07

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.35	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.36	0.0250	5.00	ND	107	70-130			
Toluene	5.37	0.0250	5.00	0.0281	107	70-130			
o-Xylene	5.38	0.0250	5.00	ND	108	70-130			
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130			
Total Xylenes	16.3	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

**Matrix Spike Dup (2532079-MSD1)**

Source: E508039-07

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	4.54	0.0250	5.00	ND	90.8	70-130	16.4	27	
Ethylbenzene	4.53	0.0250	5.00	ND	90.5	70-130	16.9	26	
Toluene	4.57	0.0250	5.00	0.0281	90.8	70-130	16.2	20	
o-Xylene	4.65	0.0250	5.00	ND	92.9	70-130	14.7	25	
p,m-Xylene	9.24	0.0500	10.0	ND	92.4	70-130	16.4	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.5	70-130	15.8	26	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		100	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:40:05AM
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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 (2532079-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

**LCS (2532079-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

**Matrix Spike (2532079-MS2)**

Source: E508039-07

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

**Matrix Spike Dup (2532079-MSD2)**

Source: E508039-07

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.4	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:40:05AM
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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 (2532124-BLK1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.5	61-141			

**LCS (2532124-BS1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	49.4		50.0		98.9	61-141			

**Matrix Spike (2532124-MS1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	61-141			

**Matrix Spike Dup (2532124-MSD1)**

Source: E508082-02

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156	4.22	20	
Surrogate: <i>n</i> -Nonane	50.0		50.0		99.9	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:40:05AM
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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 (2532091-BLK1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride	ND	20.0							
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**LCS (2532091-BS1)**

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride	253	20.0	250		101	90-110			
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**Matrix Spike (2532091-MS1)**

Source: E508039-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride	3640	20.0	250	3780	NR	80-120			M4
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**Matrix Spike Dup (2532091-MSD1)**

Source: E508039-04

Prepared: 08/06/25 Analyzed: 08/07/25

Chloride	4070	20.0	250	3780	116	80-120	11.2	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:40
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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.



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: Boros Fed West TB				Address: 3122 National Parks Hwy				E5008055		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	BEDOC - NM	B6DOC - TX	SDWA	CWA	RCRA			
1705	8/4/25	S	1	BH04-24'		1								X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana																					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>[Signature]</i>	8/5/25	900	Michelle Gonzales	8.5.25	0900																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Michelle Gonzales	8.5.25	1500	Marissa Gonzales	8.5.25	1500																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Marissa Gonzales	8.5.25	1915	Andrew Musso	8.5.25	1915																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Andrew Musso	8.5.25	2330	Caiti Marz	8.6.25	0330																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



### Envirotech Analytical Laboratory

Printed: 8/6/2025 9:19:57AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 08/06/25 06:30	Work Order ID: E508055
Phone: (972) 371-5200	Date Logged In: 08/05/25 15:29	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 08/12/25 07:00 (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.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Boros Fed West TB

Work Order: E508057

Job Number: 23003-0002

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/12/25

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: 8/12/25



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

Project Name: Boros Fed West TB  
Workorder: E508057  
Date Received: 8/6/2025 6:30:54AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:36
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-6'	E508057-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.
BH04-8'	E508057-02A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.
BH04-10'	E508057-03A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.
BH04-12'	E508057-04A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.
BH04-14'	E508057-05A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2025 8:36:12AM
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**BH04-6'**

**E508057-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.6 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2532135
Diesel Range Organics (C10-C28)	<b>1060</b>	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	<b>628</b>	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532113
Chloride	<b>10000</b>	200	10	08/07/25	08/08/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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**BH04-8'**  
**E508057-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2532135
Diesel Range Organics (C10-C28)	1340	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	758	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532113
Chloride	1040	200	10	08/07/25	08/08/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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**BH04-10'**

**E508057-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.2 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2532135
Diesel Range Organics (C10-C28)	<b>408</b>	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	<b>255</b>	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532113
Chloride	<b>588</b>	20.0	1	08/07/25	08/08/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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**BH04-12'**

**E508057-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.7 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2532135
Diesel Range Organics (C10-C28)	465	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	341	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		99.2 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532113
Chloride	488	20.0	1	08/07/25	08/08/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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**BH04-14'**

**E508057-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Benzene	ND	0.0250	1	08/06/25	08/08/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/08/25	
Toluene	ND	0.0250	1	08/06/25	08/08/25	
o-Xylene	ND	0.0250	1	08/06/25	08/08/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/08/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.6 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2532080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	08/06/25	08/08/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2532135
Diesel Range Organics (C10-C28)	430	25.0	1	08/08/25	08/08/25	
Oil Range Organics (C28-C36)	290	50.0	1	08/08/25	08/08/25	
<i>Surrogate: n-Nonane</i>						
		94.9 %	61-141	08/08/25	08/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2532113
Chloride	331	20.0	1	08/07/25	08/08/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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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 (2532080-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

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	7.46		8.00		93.3	70-130			

**LCS (2532080-BS1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			

**Matrix Spike (2532080-MS1)**

Source: E508038-03

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.16	0.0250	5.00	ND	103	70-130			
Ethylbenzene	5.00	0.0250	5.00	ND	99.9	70-130			
Toluene	5.11	0.0250	5.00	0.0319	101	70-130			
o-Xylene	5.06	0.0250	5.00	ND	101	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

**Matrix Spike Dup (2532080-MSD1)**

Source: E508038-03

Prepared: 08/06/25 Analyzed: 08/08/25

Benzene	5.25	0.0250	5.00	ND	105	70-130	1.86	27	
Ethylbenzene	5.08	0.0250	5.00	ND	102	70-130	1.72	26	
Toluene	5.22	0.0250	5.00	0.0319	104	70-130	2.29	20	
o-Xylene	5.14	0.0250	5.00	ND	103	70-130	1.61	25	
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130	1.85	23	
Total Xylenes	15.4	0.0250	15.0	ND	103	70-130	1.77	26	
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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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 (2532080-BLK1)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

**LCS (2532080-BS2)**

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	56.7	20.0	50.0		113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			

**Matrix Spike (2532080-MS2)**

Source: E508038-03

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

**Matrix Spike Dup (2532080-MSD2)**

Source: E508038-03

Prepared: 08/06/25 Analyzed: 08/08/25

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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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 (2532135-BLK1)**

Prepared: 08/08/25 Analyzed: 08/08/25

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 (2532135-BS1)**

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	286	25.0	250		114	66-144			
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.7	61-141			

**Matrix Spike (2532135-MS1)**

Source: E508057-04

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	1330	25.0	250	465	346	56-156			M2
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	61-141			

**Matrix Spike Dup (2532135-MSD1)**

Source: E508057-04

Prepared: 08/08/25 Analyzed: 08/08/25

Diesel Range Organics (C10-C28)	890	25.0	250	465	170	56-156	39.5	20	M2, R3
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.3	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 8/12/2025 8:36:12AM
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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 (2532113-BLK1)**

Prepared: 08/07/25 Analyzed: 08/08/25

Chloride ND 20.0

**LCS (2532113-BS1)**

Prepared: 08/07/25 Analyzed: 08/08/25

Chloride 254 20.0 250 102 90-110

**Matrix Spike (2532113-MS1)**

Source: E508057-03

Prepared: 08/07/25 Analyzed: 08/08/25

Chloride 859 20.0 250 588 108 80-120

**Matrix Spike Dup (2532113-MSD1)**

Source: E508057-03

Prepared: 08/07/25 Analyzed: 08/08/25

Chloride 927 20.0 250 588 136 80-120 7.61 20 M1

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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 08/12/25 08:36
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- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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: Boros Fed West TB				Address: 3122 National Parks Hwy				E508057		23103-0002					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			
925	8/4/24	S	1	BH04-6'		1								X							
941				BH04-8'		2															
1025				BH04-10'		3															
1255				BH04-12'		4															
1319				BH04-14'		5															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana																					
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>Uriel Santillana</i>	8/5/25	900	<i>Michelle Gonzales</i>	8-5-25	0900																
<i>Michelle Gonzales</i>	8-5-25	1500	<i>Marissa Gonzales</i>	8-5-25	1500																
<i>Marissa Gonzales</i>	8-5-25	1915	<i>Andrew Musso</i>	8.5.25	1915																
<i>Andrew Musso</i>	8.5.25	2330	<i>Carth Mann</i>	8.10.25	1030																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 8/6/2025 9:26:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 08/06/25 06:30 Work Order ID: E508057
Phone: (972) 371-5200 Date Logged In: 08/05/25 15:31 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 08/12/25 07:00 (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: Boros Fed West TB

Work Order: E512194

Job Number: 23003-0002

Received: 12/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/30/25

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: 12/30/25

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



Project Name: Boros Fed West TB  
Workorder: E512194  
Date Received: 12/22/2025 6:30:03AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/22/2025 6:30:03AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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**

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[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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/25 16:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-0.5'	E512194-01A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS02-0.5'	E512194-02A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS03-0.5'	E512194-03A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS04-0.5'	E512194-04A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS05-0.5'	E512194-05A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS06-0.5'	E512194-06A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.
FS07-0.5'	E512194-07A	Soil	12/18/25	12/22/25	Glass Jar, 2 oz.

### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS01-0.5'**

**E512194-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	<b>0.0580</b>	0.0500	1	12/22/25	12/22/25	
Total Xylenes	<b>0.0580</b>	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	<b>1830</b>	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	<b>703</b>	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		95.5 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	<b>9960</b>	200	10	12/23/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS02-0.5'**

**E512194-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	1070	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	564	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	8620	200	10	12/23/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS03-0.5'**

**E512194-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.8 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	963	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	619	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		95.3 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	12200	400	20	12/23/25	12/23/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS04-0.5'**

**E512194-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.2 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	275	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	193	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	11800	400	20	12/23/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS05-0.5'**

**E512194-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	893	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	476	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	12900	400	20	12/23/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS06-0.5'**

**E512194-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.8 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	54.5	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		92.5 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	11800	400	20	12/23/25	12/23/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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**FS07-0.5'**

**E512194-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Benzene	ND	0.0250	1	12/22/25	12/22/25	
Ethylbenzene	ND	0.0250	1	12/22/25	12/22/25	
Toluene	ND	0.0250	1	12/22/25	12/22/25	
o-Xylene	ND	0.0250	1	12/22/25	12/22/25	
p,m-Xylene	ND	0.0500	1	12/22/25	12/22/25	
Total Xylenes	ND	0.0250	1	12/22/25	12/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.3 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/25	12/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	12/22/25	12/22/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2552018
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/25	12/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/25	12/23/25	
<i>Surrogate: n-Nonane</i>						
		94.7 %	61-141	12/22/25	12/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: TP		Batch: 2552045
Chloride	12100	400	20	12/23/25	12/23/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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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 (2552003-BLK1)**

Prepared: 12/22/25 Analyzed: 12/22/25

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	7.46		8.00		93.2	70-130			

**LCS (2552003-BS1)**

Prepared: 12/22/25 Analyzed: 12/22/25

Benzene	4.82	0.0250	5.00		96.4	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.1	70-130			
Toluene	4.74	0.0250	5.00		94.8	70-130			
o-Xylene	4.60	0.0250	5.00		92.1	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	13.9	0.0250	15.0		92.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

**Matrix Spike (2552003-MS1)**

Source: E512193-04

Prepared: 12/22/25 Analyzed: 12/22/25

Benzene	4.86	0.0250	5.00	ND	97.1	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	70-130			
Toluene	4.79	0.0250	5.00	ND	95.7	70-130			
o-Xylene	4.67	0.0250	5.00	ND	93.3	70-130			
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	70-130			
Total Xylenes	14.1	0.0250	15.0	ND	93.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			

**Matrix Spike Dup (2552003-MSD1)**

Source: E512193-04

Prepared: 12/22/25 Analyzed: 12/22/25

Benzene	5.10	0.0250	5.00	ND	102	70-130	4.89	27	
Ethylbenzene	4.84	0.0250	5.00	ND	96.7	70-130	5.05	26	
Toluene	5.03	0.0250	5.00	ND	101	70-130	4.93	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	70-130	4.66	25	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	70-130	4.89	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	70-130	4.81	26	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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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 (2552003-BLK1)**

Prepared: 12/22/25 Analyzed: 12/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.91		8.00		111	70-130			

**LCS (2552003-BS2)**

Prepared: 12/22/25 Analyzed: 12/22/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.26		8.00		116	70-130			

**Matrix Spike (2552003-MS2)**

Source: E512193-04

Prepared: 12/22/25 Analyzed: 12/22/25

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.96		8.00		112	70-130			

**Matrix Spike Dup (2552003-MSD2)**

Source: E512193-04

Prepared: 12/22/25 Analyzed: 12/22/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	1.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.86		8.00		111	70-130			





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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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 (2552018-BLK1)**

Prepared: 12/22/25 Analyzed: 12/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.1		50.0		90.2	61-141			

**LCS (2552018-BS1)**

Prepared: 12/22/25 Analyzed: 12/23/25

Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: <i>n</i> -Nonane	45.8		50.0		91.7	61-141			

**Matrix Spike (2552018-MS1)**

Source: E512195-07

Prepared: 12/22/25 Analyzed: 12/23/25

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156			
Surrogate: <i>n</i> -Nonane	49.1		50.0		98.2	61-141			

**Matrix Spike Dup (2552018-MSD1)**

Source: E512195-07

Prepared: 12/22/25 Analyzed: 12/23/25

Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	56-156	2.16	20	
Surrogate: <i>n</i> -Nonane	48.0		50.0		96.1	61-141			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/2025 4:13:51PM
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#### Anions by EPA 300.0/9056A

Analyst: TP

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 (2552045-BLK1)**

Prepared: 12/23/25 Analyzed: 12/23/25

Chloride	ND	20.0							
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**LCS (2552045-BS1)**

Prepared: 12/23/25 Analyzed: 12/23/25

Chloride	257	20.0	250		103	90-110			
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**Matrix Spike (2552045-MS1)**

Source: E512194-05

Prepared: 12/23/25 Analyzed: 12/23/25

Chloride	13500	400	250	12900	226	80-120			M4
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**Matrix Spike Dup (2552045-MSD1)**

Source: E512194-05

Prepared: 12/23/25 Analyzed: 12/23/25

Chloride	13100	400	250	12900	75.7	80-120	2.84	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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 12/30/25 16:13
---	---	------------------------------------

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: Boros Fed West TB				Address: 3122 National Parks Hwy				E512194		23003-002					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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
10:35	12/18/2025	Soil	1	FS01 - 0.5'			1								X					
10:38	12/18/2025	Soil	1	FS02 - 0.5'			2								X					
10:41	12/18/2025	Soil	1	FS03 - 0.5'			3								X					
10:43	12/18/2025	Soil	1	FS04 - 0.5'			4								X					
10:47	12/18/2025	Soil	1	FS05 - 0.5'			5								X					
10:48	12/18/2025	Soil	1	FS06 - 0.5'			6								X					
10:50	12/18/2025	Soil	1	FS07 - 0.5'			7								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: Israel Estrella																				
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: (Y) N												
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													
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: 12/22/2025 9:20:56AM

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: 12/22/25 06:30	Work Order ID: E512194
Phone: (972) 371-5200	Date Logged In: 12/19/25 15:57	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 12/31/25 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

**Comments/Resolution**

L-NS  
R-NV

**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: Boros Fed West TB

Work Order: E512206

Job Number: 23003-0002

Received: 12/23/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/7/26

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: 1/7/26

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

Project Name: Boros Fed West TB  
Workorder: E512206  
Date Received: 12/23/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2025 6:30:00AM, under the Project Name: Boros Fed West TB.

The analytical test results summarized in this report with the Project Name: Boros Fed West TB 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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[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:

Boros Fed West TB

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

**Reported:**

01/07/26 10:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-0.5'	E512206-01A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS09-0.5'	E512206-02A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS10-0.5'	E512206-03A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS11-0.5'	E512206-04A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS12-0.5'	E512206-05A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS13-0.5'	E512206-06A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS14-0.5'	E512206-07A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS15-0.5'	E512206-08A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS16-0.5'	E512206-09A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS17-0.5'	E512206-10A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS18-0.5'	E512206-11A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.
FS19-0.5'	E512206-12A	Soil	12/19/25	12/23/25	Glass Jar, 2 oz.



Case Narrative:

Project Name: Boros Fed West TB

Workorder:E512206

Date Received: 12/23/25 06:30

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>
FS09-0.5'	E512206-02A	300.0 Chloride

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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS08-0.5'**

**E512206-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2552050	
Benzene	ND	0.0250	1	12/23/25	12/23/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/23/25	
Toluene	ND	0.0250	1	12/23/25	12/23/25	
o-Xylene	ND	0.0250	1	12/23/25	12/23/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/23/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2552050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2553006	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		92.1 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2553003	
Chloride	13300	400	20	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS09-0.5'**

**E512206-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/23/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/23/25	
Toluene	ND	0.0250	1	12/23/25	12/23/25	
o-Xylene	ND	0.0250	1	12/23/25	12/23/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/23/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		88.9 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2602052
Chloride	12700	400	20	01/06/26	01/06/26	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS10-0.5'**

**E512206-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		93.2 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	8620	200	10	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS11-0.5'**

**E512206-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		91.4 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	14400	400	20	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS12-0.5'**

**E512206-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.6 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>						
		91.1 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	11200	400	20	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS13-0.5'**

**E512206-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	49.0	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		91.0 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	13100	400	20	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS14-0.5'**

**E512206-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/23/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/23/25	
Toluene	ND	0.0250	1	12/23/25	12/23/25	
o-Xylene	ND	0.0250	1	12/23/25	12/23/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/23/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	70-130	12/23/25	12/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	46.1	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		91.2 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	11100	400	20	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS15-0.5'**

**E512206-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	35.4	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>						
		90.5 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	8270	200	10	12/29/25	12/29/25	





### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS16-0.5'**

**E512206-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		91.0 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	6020	200	10	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS17-0.5'**

**E512206-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	50.2	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		90.7 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	10300	200	10	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS18-0.5'**

**E512206-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>		91.5 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	4990	200	10	12/29/25	12/29/25	



### Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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**FS19-0.5'**

**E512206-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Benzene	ND	0.0250	1	12/23/25	12/24/25	
Ethylbenzene	ND	0.0250	1	12/23/25	12/24/25	
Toluene	ND	0.0250	1	12/23/25	12/24/25	
o-Xylene	ND	0.0250	1	12/23/25	12/24/25	
p,m-Xylene	ND	0.0500	1	12/23/25	12/24/25	
Total Xylenes	ND	0.0250	1	12/23/25	12/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2552050
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/25	12/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	12/23/25	12/24/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2553006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/25	12/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/25	12/29/25	
<i>Surrogate: n-Nonane</i>						
		91.9 %	61-141	12/29/25	12/29/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2553003
Chloride	3790	200	10	12/29/25	12/29/25	



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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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 (2552050-BLK1)

Prepared: 12/23/25 Analyzed: 12/23/25

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	8.82		8.00		110	70-130			

#### LCS (2552050-BS1)

Prepared: 12/23/25 Analyzed: 12/23/25

Benzene	4.95	0.0250	5.00		98.9	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.89		8.00		111	70-130			

#### Matrix Spike (2552050-MS1)

Source: E512206-07

Prepared: 12/23/25 Analyzed: 12/23/25

Benzene	4.99	0.0250	5.00	ND	99.7	70-130			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	70-130			
Toluene	4.89	0.0250	5.00	ND	97.8	70-130			
o-Xylene	4.88	0.0250	5.00	ND	97.7	70-130			
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.87		8.00		111	70-130			

#### Matrix Spike Dup (2552050-MSD1)

Source: E512206-07

Prepared: 12/23/25 Analyzed: 12/23/25

Benzene	4.98	0.0250	5.00	ND	99.7	70-130	0.0853	27	
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	70-130	0.459	26	
Toluene	4.89	0.0250	5.00	ND	97.9	70-130	0.0501	20	
o-Xylene	4.92	0.0250	5.00	ND	98.4	70-130	0.742	25	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	70-130	0.501	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	70-130	0.581	26	
Surrogate: 4-Bromochlorobenzene-PID	8.88		8.00		111	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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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 (2552050-BLK1)**

Prepared: 12/23/25 Analyzed: 12/23/25

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

**LCS (2552050-BS2)**

Prepared: 12/23/25 Analyzed: 12/23/25

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

**Matrix Spike (2552050-MS2)**

Source: E512206-07

Prepared: 12/23/25 Analyzed: 12/23/25

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

**Matrix Spike Dup (2552050-MSD2)**

Source: E512206-07

Prepared: 12/23/25 Analyzed: 12/23/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	5.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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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 (2553006-BLK1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.4	61-141			

**LCS (2553006-BS1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Diesel Range Organics (C10-C28)	230	25.0	250		91.8	66-144			
Surrogate: n-Nonane	43.8		50.0		87.6	61-141			

**Matrix Spike (2553006-MS1)**

Source: E512208-01

Prepared: 12/29/25 Analyzed: 12/29/25

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	56-156			
Surrogate: n-Nonane	45.7		50.0		91.5	61-141			

**Matrix Spike Dup (2553006-MSD1)**

Source: E512208-01

Prepared: 12/29/25 Analyzed: 12/29/25

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	56-156	0.796	20	
Surrogate: n-Nonane	46.1		50.0		92.2	61-141			





### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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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 (2553003-BLK1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Chloride ND 20.0

**LCS (2553003-BS1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Chloride 260 20.0 250 104 90-110

**Matrix Spike (2553003-MS1)**

Source: E512206-03

Prepared: 12/29/25 Analyzed: 12/29/25

Chloride 9330 200 250 8620 287 80-120 M4

**Matrix Spike Dup (2553003-MSD1)**

Source: E512206-03

Prepared: 12/29/25 Analyzed: 12/29/25

Chloride 8400 200 250 8620 NR 80-120 10.6 20 M4



### QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/7/2026 10:52:59AM
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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 (2602052-BLK1)**

Prepared: 01/06/26 Analyzed: 01/06/26

Chloride ND 20.0

**LCS (2602052-BS1)**

Prepared: 01/06/26 Analyzed: 01/06/26

Chloride 259 20.0 250 103 90-110

**Matrix Spike (2602052-MS1)**

Source: E601010-02

Prepared: 01/06/26 Analyzed: 01/06/26

Chloride 258 20.0 250 ND 103 80-120

**Matrix Spike Dup (2602052-MSD1)**

Source: E601010-02

Prepared: 01/06/26 Analyzed: 01/06/26

Chloride 258 20.0 250 ND 103 80-120 0.131 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: Boros Fed West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 01/07/26 10:52
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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: 3/2/2026 4:46:35 PM

Received by OCD: 1/23/2026 12:32:01 PM

Client Information				Invoice Information				Lab Use Only				TAT				State																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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<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: Boros Fed West TB				Address: 3122 National Parks Hwy				E512206		23003-0002						x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
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Sample Information										Analysis and Method										EPA Program				
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Sampled by: Israel Estrella						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: (Y) / N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	12/22/25	7:11	Michelle Gonzales	12-22-25	0711						
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Envirotech Analytical Laboratory

Printed: 12/23/2025 8:50:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 12/23/25 06:30 Work Order ID: E512206
Phone: (972) 371-5200 Date Logged In: 12/22/25 15:01 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 01/05/26 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

Box containing text: L-NS, R-NV

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

Date



envirotech Inc.





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 WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Boros Fed West TB				Address: 3122 National Parks Hwy				E512206		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			Sample Temp	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	TCEQ 1005-TX	RCRA 8 Metals	BEDOC - HM	BEDOC - TX	SDWA	CWA			RCRA	
10:09	12/19/2025	Soil	1	FS08 - 0.5'		1														2.2	Client
10:11	12/19/2025	Soil	1	FS09 - 0.5'		2					X									2.9	reg rush
10:15	12/19/2025	Soil	1	FS10 - 0.5'		3														2.7	CL Perun
10:17	12/19/2025	Soil	1	FS11 - 0.5'		4														2.7	on #2.
10:18	12/19/2025	Soil	1	FS12 - 0.5'		5														2.2	1/6/26
10:58	12/19/2025	Soil	1	FS13 - 0.5'		6														3.5	AM
11:29	12/19/2025	Soil	1	FS14 - 0.5'		7														2.8	
11:31	12/19/2025	Soil	1	FS15 - 0.5'		8														2.7	
11:32	12/19/2025	Soil	1	FS16 - 0.5'		9														3.4	
11:33	12/19/2025	Soil	1	FS17 - 0.5'		10														3.7	

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: Israel Estrella

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>	12/22/25	7:11	<i>Michelle Gonzalez</i>	12-22-25	0711	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzalez</i>	12-22-25	1230	<i>Marissa Gonzalez</i>	12-22-25	1230	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Marissa Gonzalez</i>	12-22-25	1615	<i>Nathan Gonzalez</i>	12-22-25	1615	
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>Nathan Gonzalez</i>	12-22-25	2010	<i>Noe Soto</i>	12-23-25	0630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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





Chain of Custody

<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: Boros Fed West TB				Address: 3122 National Parks Hwy				E512206		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/GRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEEQ 1005 - TX	RCRA 8 Metals	BIGDOC - NM	BIGDOC - TX	SDWA	CWA	RCRA	
11:34	12/19/2025	Soil	1	FS18 - 0.5'			11													
11:35	12/19/2025	Soil	1	FS19 - 0.5'			12													

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com  
*Client req rush CL Kieruh 1/6/25 CM*

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: Israel Estrella

Relinquished by: (Signature) <i>Israel Estrella</i>	Date 12/22/25	Time 7:11	Received by: (Signature) <i>Michelle Gonzalez</i>	Date 12-22-25	Time 0711	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
Relinquished by: (Signature) <i>Michelle Gonzalez</i>	Date 12-22-25	Time 1230	Received by: (Signature) <i>Marissa Gonzalez</i>	Date 12-22-25	Time 1230	
Relinquished by: (Signature) <i>Marissa Gonzalez</i>	Date 12-22-25	Time 1615	Received by: (Signature) <i>Nathan Gonzalez</i>	Date 12-22-25	Time 1615	
Relinquished by: (Signature) <i>Nathan Gonzalez</i>	Date 12-22-25	Time 2010	Received by: (Signature) <i>Noe Soto</i>	Date 12-23-25	Time 0630	
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.



## APPENDIX F

### NMOCD Correspondence

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**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Chad Hamilton](#)  
**Cc:** [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [Ashley Giovengo](#)  
**Subject:** RE: [EXTERNAL] Extension Request - Matador Production Company - Boros Fed West TB - Incident Number nAPP2518229331  
**Date:** Monday, September 29, 2025 2:41:23 PM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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

Your time extension request is approved. Remediation Due date has been updated to December 26, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

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

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

Thank you,  
Scott

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



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, September 29, 2025 1:14 PM  
**To:** Rodgers, Scott, EMNRD <[Scott.Rodgers@emnrd.nm.gov](mailto:Scott.Rodgers@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] Extension Request - Matador Production Company - Boros Fed West TB - Incident Number nAPP2518229331

---

**From:** Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Sent:** Monday, September 29, 2025 11:50 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrn.nm.gov](mailto:OCD.Enviro@emnrn.nm.gov)>  
**Cc:** Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - Matador Production Company - Boros Fed West TB - Incident Number nAPP2518229331

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

Matador Production Company (Matador) is requesting an extension of the current deadline of September 29, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Boros Fed West TB (Site) (Incident Number nAPP2518229331). The release occurred on June 29, 2025, and approximately 9 barrels (bbls) of produced water were released onto the pad surface; 1 bbl of produced water was recovered. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and gas-powered core drill. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH04) at depths ranging from ground surface to 24 feet below ground surface (bgs). On August 21, 2025, Southwest Geophysical Consulting, LLC (Southwest Geophysical) was contracted to perform a karst survey at the Site. Southwest Geophysical was onsite beginning on September 8, 2025, under the supervision of Dave Decker, to complete field activities for the geophysical portion of the karst survey. Once the geophysical karst survey for the Site has been completed, Matador will begin excavation of the subject matter release. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until December 26, 2025. 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:** [Rodgers, Scott, EMNRD](#)  
**To:** [Chad Hamilton](#)  
**Cc:** [Jason Touchet](#); [Ashley Giovengo](#)  
**Subject:** RE: [EXTERNAL] Extension Request - Matador Production Company - Boros Fed West TB - Incident Number nAPP2518229331  
**Date:** Monday, January 5, 2026 3:12:29 PM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

---

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

Your time extension request is approved. Remediation Due date has been updated to March 26, 2026 within the incident page. Please note that this is the second and final extension request approval.

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

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

Thank you,  
Scott

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



---

**From:** Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Sent:** Friday, December 26, 2025 8:05 AM  
**To:** Rodgers, Scott, EMNRD <[Scott.Rodgers@emnrn.nm.gov](mailto:Scott.Rodgers@emnrn.nm.gov)>; Enviro, OCD, EMNRD <[OCD.Enviro@emnrn.nm.gov](mailto:OCD.Enviro@emnrn.nm.gov)>  
**Cc:** Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - Matador Production Company - Boros Fed West TB - Incident Number nAPP2518229331

---

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

Mr. Rodgers

Matador Production Company (Matador) is requesting an extension of the current deadline of December 26, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Boros Fed West TB (Site) (Incident Number nAPP2518229331). The release occurred on June 29, 2025, and approximately 9 barrels (bbls) of produced water were released onto the pad surface; 1 bbl of produced water was recovered. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and gas-powered core drill. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH04) at depths ranging from ground surface to 24 feet below ground surface (bgs). On August 21, 2025, Southwest Geophysical Consulting, LLC (Southwest Geophysical) was contracted to perform a karst survey at the Site. Southwest Geophysical was onsite beginning on September 8, 2025, under the supervision of Dave Decker, to complete field activities for the geophysical portion of the karst survey. A soil boring was completed on November 19, 2025, to determine the depth to water ground water at the Site. The soil boring was left open for at least 72-hours to allow to equilibrate and was measured on November 24, 2025. Beginning on December 15, 2025, Ensolum personnel were onsite to oversee excavation of impacted and waste containing soil; excavation and confirmation soil sampling activities are currently on-going. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation soil sampling activities. Matador respectfully requests a 90-day extension until March 26, 2026. 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 



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 480415

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480415
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Boros Fed West TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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: Other   Other (Specify)   Produced Water   Released: 9 BBL   Recovered: 1 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	SWD Pump Seals failed causing an unexpected release.

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

QUESTIONS, Page 2

Action 480415

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480415
	Action Type: [NOTIFY] Notification Of Release (NOR)

**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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

ACKNOWLEDGMENTS

Action 480415

**ACKNOWLEDGMENTS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480415
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 480415

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480415
	Action Type: [NOTIFY] Notification Of Release (NOR)

**CONDITIONS**

Created By	Condition	Condition Date
j_touchet	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	7/1/2025

<b>Impacted Soil On-Pad</b>	
Saturated Soil (inches)	
	0.75
Area (sq. ft.)	
	3,716
<b>Standing fluids</b>	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	1
<b>Soil type</b>	
	pad caliche
<b>Spill type</b>	
	produced water
<b>Barrel estimate in soil</b>	
	8.3
Barrel estimate (standing fluids/ recovered+in soil)	
	9.3

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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 480454

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480454
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Boros Fed West TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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: Other   Other (Specify)   Produced Water   Released: 9 BBL   Recovered: 1 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	SWD Pump Seals failed causing an unexpected release.



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Phone: (505) 476-3441

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

QUESTIONS, Page 2

Action 480454

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480454
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**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: 07/01/2025
--	--

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
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QUESTIONS, Page 3

Action 480454

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480454
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**1220 S. St Francis Dr.**  
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CONDITIONS

Action 480454

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480454
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	7/1/2025

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QUESTIONS

Action 533441

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533441
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/15/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032

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CONDITIONS

Action 533441

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533441
	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.	12/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/9/2025

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1220 S. St Francis Dr.  
Santa Fe, NM 87505**

QUESTIONS

Action 533443

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533443
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/16/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032



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Phone: (505) 629-6116

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**State of New Mexico**  
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**Santa Fe, NM 87505**

CONDITIONS

Action 533443

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533443
	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.	12/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/9/2025

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QUESTIONS

Action 533447

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533447
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/17/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032

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CONDITIONS

Action 533447

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533447
	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.	12/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/9/2025

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QUESTIONS

Action 533451

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533451
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032

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CONDITIONS

Action 533451

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533451
	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.	12/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/9/2025

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QUESTIONS

Action 533456

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533456
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032



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CONDITIONS

Action 533456

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 533456
	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.	12/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/9/2025

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QUESTIONS

Action 535951

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 535951
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/22/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.04888,-103.77032

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CONDITIONS

Action 535951

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 535951
	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.	12/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/17/2025

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QUESTIONS

Action 535952

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 535952
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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	3,718
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/23/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella @ (575) 291-9537
Please provide any information necessary for navigation to sampling site	(32.04888,-103.77032

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CONDITIONS

Action 535952

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 535952
	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.	12/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	12/17/2025

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 545866

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518229331
Incident Name	NAPP2518229331 BOROS FED WEST TB @ FAPP2202571232
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2202571232] Boros West Facility Tank Battery

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	BOROS FED WEST TB
Date Release Discovered	06/29/2025
Surface Owner	Federal

<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: Other   Other (Specify)   Produced Water   Released: 9 BBL   Recovered: 1 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	SWD Pump Seals failed causing an unexpected release.

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

QUESTIONS, Page 2

Action 545866

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**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: 01/23/2026
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QUESTIONS, Page 3

Action 545866

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (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)	19600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10370
GRO+DRO (EPA SW-846 Method 8015M)	6800
BTEX (EPA SW-846 Method 8021B or 8260B)	1
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	12/05/2025
On what date will (or did) the final sampling or liner inspection occur	12/19/2025
On what date will (or was) the remediation complete(d)	12/19/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3718
What is the estimated volume (in cubic yards) that will be remediated	80

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

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

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QUESTIONS, Page 4

Action 545866

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the 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	Lea Land LLC
(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: 01/23/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 545866

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferral area is directly beneath active production equipment and transfer pumps preventing complete remediation of the area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	832
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	293
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-46748 BOROS FEDERAL COM #215H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 01/23/2026

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QUESTIONS, Page 6

Action 545866

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>535952</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>12/23/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>30</b>
What was the sampling surface area in square feet	<b>3718</b>

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	<b>No</b>
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CONDITIONS

Action 545866

**CONDITIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 545866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of FS01, FS02 and BH04 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	3/2/2026