



March 31, 2026

New Mexico Oil Conservation Division

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

**Re: Deferral Request Denial Response – Closure Request
Deferral Request dated December 17, 2025
Santa Fe Exploration TB
Incident Numbers nAPP2511224161
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request Denial Response* to the New Mexico Oil Conservation Division (NMOCD) in reference to the *Deferral Request*, dated December 17, 2025, prepared by Ensolum for the above referenced Site. Ensolum offers the following responses to the NMOCD comments:

Major facility deconstruction typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in lines, etc. After review, OCD does not consider the remediation of the releases at the Santa Fe Facility Tank Battery to require a major facility deconstruction.

On February 23, through February 25, 2025, Ensolum personnel returned to the Site to oversee the excavation of the remaining impacts and collection of nine additional confirmation floor soil samples (FS19 through FS27) and nine sidewall soil samples (SW13 through SW21) from the excavation area. The area was excavated via trackhoe, and the soil samples were collected at depths ranging from 8 feet to 10 feet below ground surface (bgs). Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavated area. Soil from the confirmation floor samples were field screened for total petroleum hydrocarbons (TPH) utilizing a calibrated PetroFLAG[®] soil analyzer system and chloride using Hach[®] chloride QuanTab[®] test strips. 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. 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): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. The excavation soil sample locations are depicted on Figure 3. Photographs were

Matador Production Company
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Deferral Request Denial Response



taken during the excavation and soil sampling activities, and a photographic log is included in Appendix A.

Samples collected and submitted to Envirotech, under work order numbers E602279, E602293, E602294, E602295, on February 23, February 24, and February 25, 2026, were initially submitted as samples FS01 through BH09 and SW01 through SW09. All submitted sample names had previously been used for samples collected during the initial excavation beginning on September 25, 2025. Ensolum personnel called Envirotech to remedy this mistake so sample locations FS01 through FS09 collected on February 23, and February 25, 2025, were renamed as FS19 through FS27 and sample locations SW01 through SW09 collected on February 24 and February 25, 2026, were renamed SW13 through SW21.

Laboratory analytical results for the excavation floor and sidewall soil samples indicated all COCs were in compliance with the Site Closure Criteria. Laboratory analytical results are summarized in Table 2, and the complete laboratory analytical report is included as Appendix B.

CLOSURE REQUEST

As stated in the original *Deferral Request*, dated December 17, 2025 (Appendix C), the release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS09, SS09A, SS09B, and SS13, collected at depths ranging from ground surface to 1-foot bgs and vertically by boreholes BH01 through BH05, collected at depths ranging from 1-foot to 20 feet bgs. Delineation soil samples SS10, SS11, SS12, SS12A, SS12B, and SS12C were in compliance with the Site Closure Criteria at ground surface and 1-foot bgs. Excavation of impacted soil exceeding the applicable Site Closure Criteria was completed. The additional collection of floor samples FS19 through FS27, collected at depths ranging from 8 feet and 10 feet bgs, indicated soils remaining in place are in compliance with the applicable Site Closure Criteria.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater have requirements set forth in 19.15.29 NMAC have been adhered to and as such, respectfully requests Closure for Incident Number nAPP2511224161.

If you have any questions or comments, please contact Mrs. Ashley Urzedo at (575) 988-0055 or aurzedo@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "J. McCauley".

Jarad McCauley
Staff Scientist

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 Production Company

Matador Production Company
Santa Fe Exploration TB
Deferral Request Denial Response



Attachments:

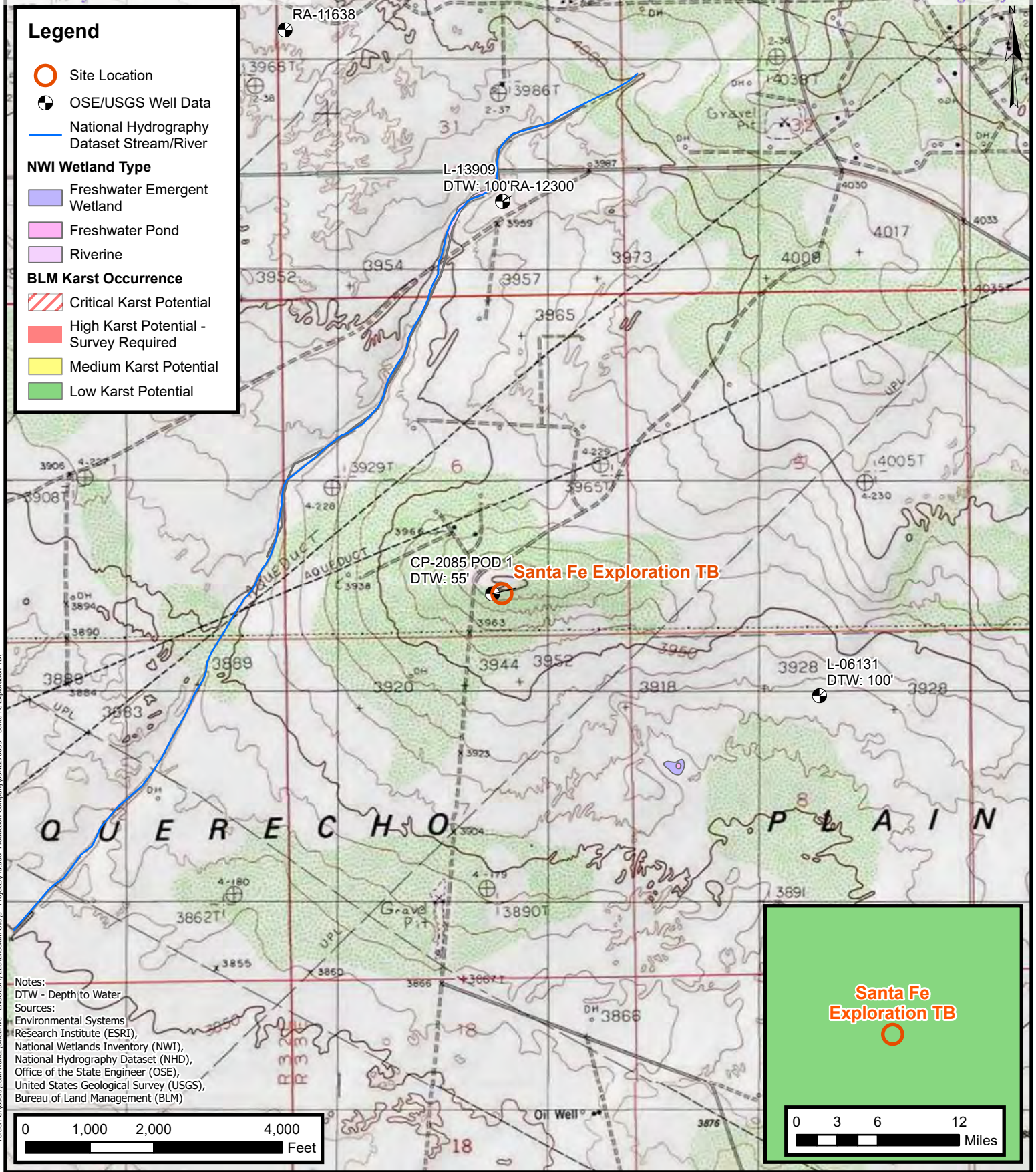
- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3A Confirmation Soil Sample Locations
- Figure 3B Confirmation Soil Sample Locations

- Table 1 Soil Sample Analytical Results (Delineation Soil Samples)
- Table 2 Soil Sample Analytical Results (Excavation Floor Soil Samples)
- Table 3 Soil Sample Analytical Results (Excavation Sidewall Soil Samples)

- Appendix A Photographic Log
- Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix C Remediation Deferral Request



FIGURES



Site Receptor Map

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

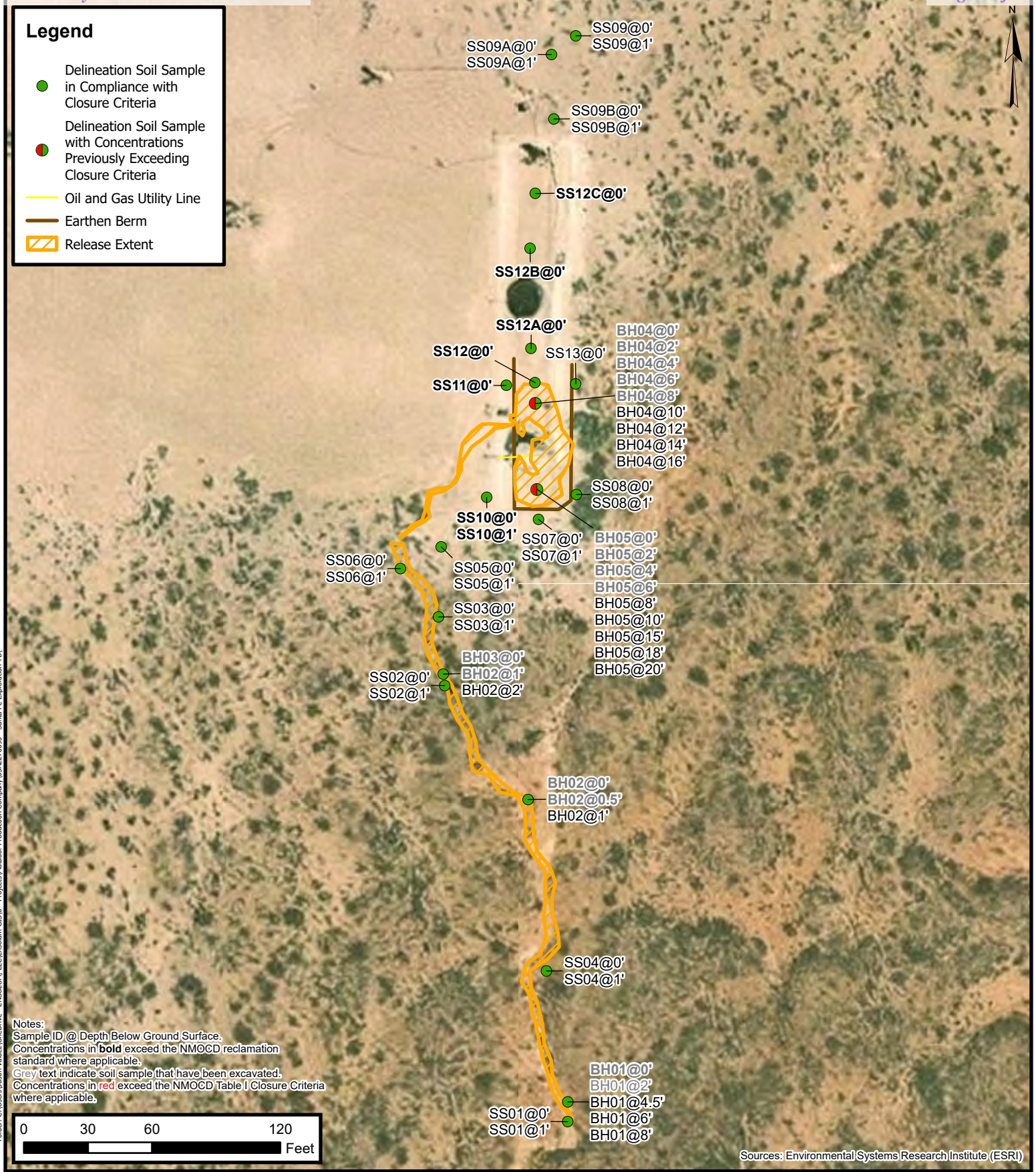
FIGURE

1

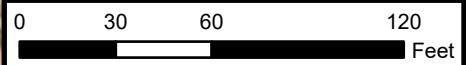


Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Earthen Berm
- Release Extent



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



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

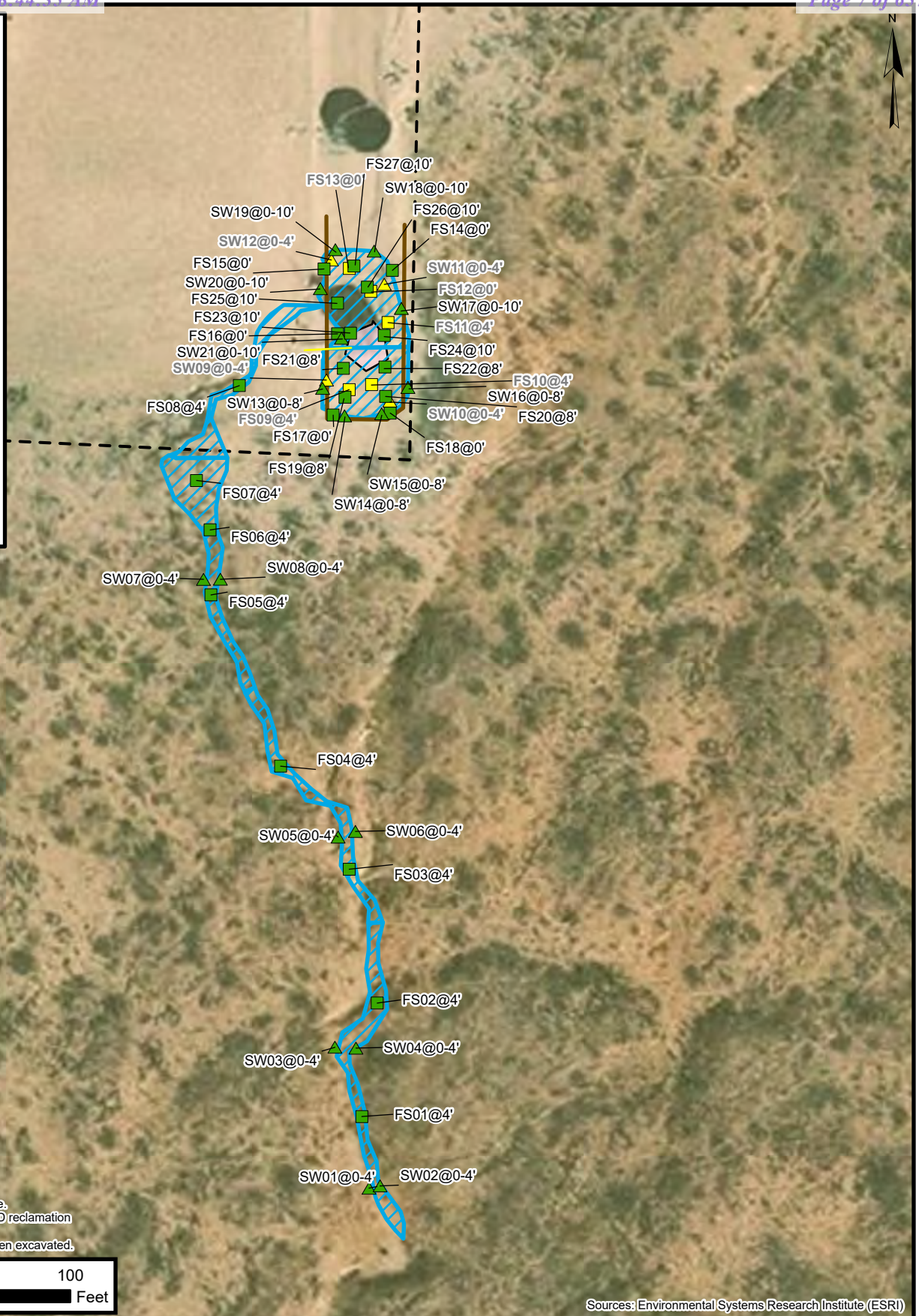
Matador Production Company
 Santa Fe Exploration TB
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 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

FIGURE
2

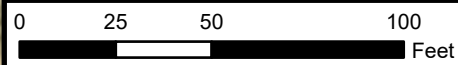


Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- Confirmation Floor Soil Sample removed during excavation
- ▲ Confirmation Sidewall Soil Sample removed during excavation
- Oil and Gas Utility Line
- Earthen Berm
- - - Pad Boundary
- Infrastructure
- Excavation



Notes:
 Sample ID @ Depth Below Ground Surface.
 Concentrations in **bold** exceed the NMOC standard where applicable.
 Grey text indicate soil sample that have been excavated.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Location

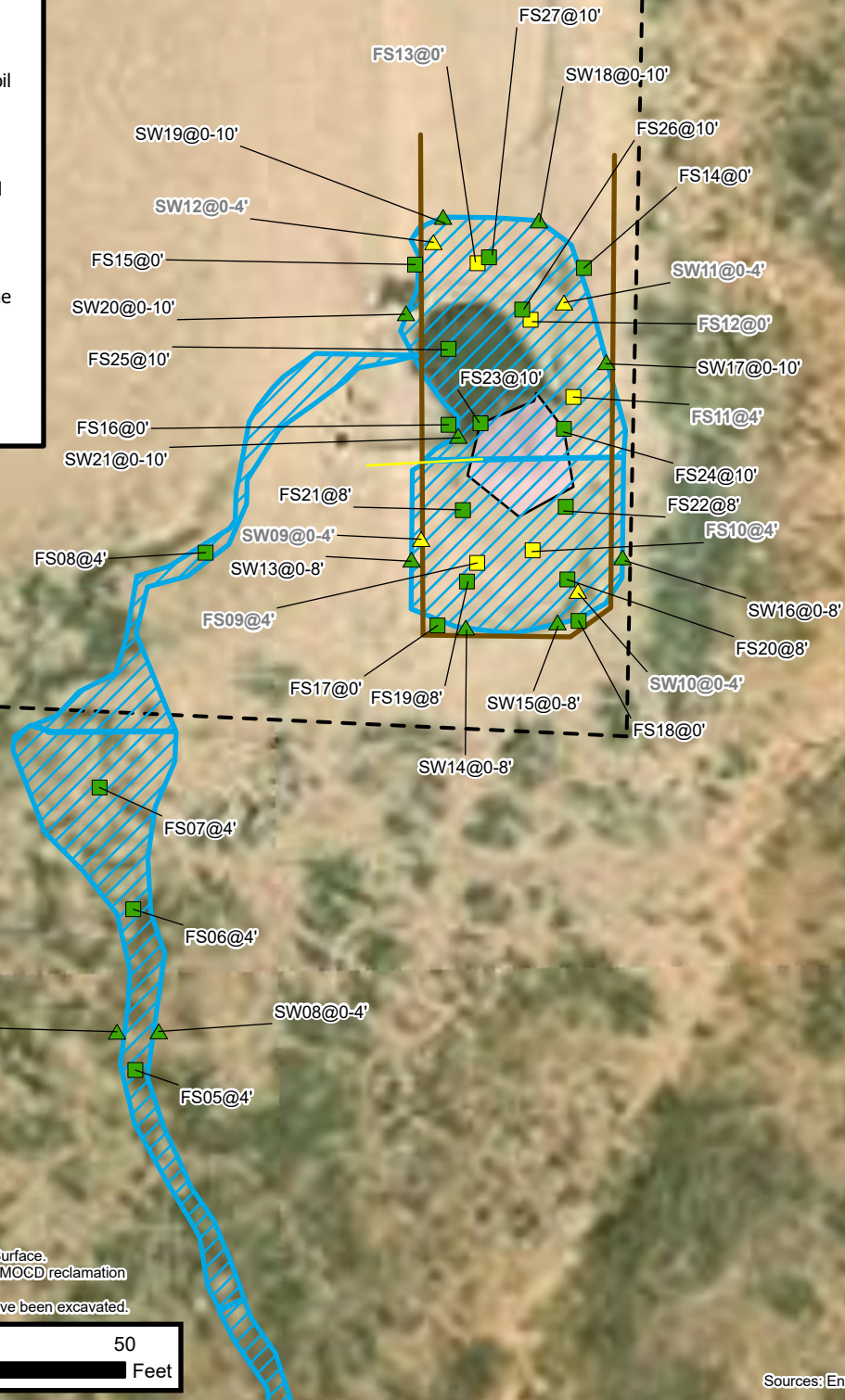
Matador Production Company
 Santa Fe Exploration TB
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 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

FIGURE 3A

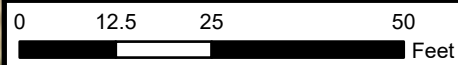


Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- Confirmation Floor Soil Sample removed during excavation
- ▲ Confirmation Sidewall Soil Sample removed during excavation
- Oil and Gas Utility Line
- Earthen Berm
- Pad Boundary
- Infrastructure
- Excavation



Notes:
 Sample ID @ Depth Below Ground Surface.
 Concentrations in **bold** exceed the NMOCD reclamation standard where applicable.
 Grey text indicate soil sample that have been excavated.



Confirmation Soil Sample Location

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

**FIGURE
3B**





TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table 1 Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
SS01	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	33.0
SS01	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	513
SS02	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.8
SS05	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.8
SS05	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	142
SS06	6/6/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS06	6/6/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.9
SS07	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.1
SS07	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	78.7
SS08	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.9
SS08	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	103
SS09	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117
SS09	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
SS09A	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.9
SS09A	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	651
SS09B	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	191
SS09B	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.3
SS10	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,350
SS10	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860
SS11	10/16/2025	0	<0.0250	<0.0500	<20.0	33.8	77.9	33.8	112	1,120
SS12	10/16/2025	0	<0.0250	<0.0500	<20.0	31.9	76.9	31.9	108.8	849
SS12A	11/24/2025	0	<0.0250	<0.0500	<20.0	39.3	122.0	39.3	161.3	132
SS12B	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,460
SS12C	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,490
SS13	10/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	325

TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
BH01	4/28/2025	0	3.14	184	1,130	22,700	10,100	23,830	33,930	178
BH01	4/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	449
BH01	4/28/2025	4.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,070
BH01	6/12/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH01	6/12/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	706
BH02	4/28/2025	0	1.76	189	1,100	20,500	7,160	21,600	28,760	<20.0
BH02	4/28/2025	0.5	<0.0250	<0.0500	<20.0	272	127	272	399	<20.0
BH02	6/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.3
BH03	4/28/2025	0	1.39	179	1,330	24,400	10,500	25,730	36,230	54.2
BH03	4/28/2025	1	<0.0250	<0.0500	<20.0	186	113	186	299	<20.0
BH03	6/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04	6/19/2025	0	2.29	117	730	19,600	7,120	7,850	27,450	162
BH04	6/19/2025	2	21.2	219	1,010	10,100	3,310	11,110	14,420	1,030
BH04	6/19/2025	4	17.8	287	1,660	9,830	2,930	11,490	14,420	1,070
BH04	6/19/2025	6	28.6	348	1,890	10,500	3,660	12,390	16,050	806
BH04	6/19/2025	8	13.3	130	555	3,120	846	3,675	4,520	1,120
BH04	6/20/2025	10	1.11	23.7	115	765	266	880	1,146	200
BH04	6/20/2025	12	0.0449	1.94	<20.0	310	126	310	436	191
BH04	6/20/2025	14	0.0512	2.20	<20.0	400	161	400	561	335
BH04	6/20/2025	16	0.234	4.11	22.0	63.0	<50.0	85.0	85.0	257



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
BH05	6/20/2025	0	7.27	359	1,450	42,100	11,700	43,550	55,250	<20.0
BH05	6/23/2025	2	9.92	140	441	4,810	1,490	5,251	6,741	40.3
BH05	6/23/2025	4	7.25	125	386	4,590	1,520	4,976	6,496	<20.0
BH05	6/23/2025	6	5.57	75.6	243	4,790	1,840	5,033	6,873	26.5
BH05	8/28/2025	8	0.18	14.1	61.2	269	86.1	269	355	<20.0
BH05	8/28/2025	10	<0.0250	0.33	<20.0	36.3	<50.0	36.3	36.3	<20.0
BH05	8/28/2025	15	<0.0250	<0.0500	<20.0	65.1	<50.0	65.1	65.1	154
BH05	8/28/2025	18	<0.0250	<0.0500	<20.0	117	72.6	117	190	420
BH05	8/28/2025	20	<0.0250	<0.0500	<20.0	250	141	250	391	390

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
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS01*	9/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	932
FS02*	9/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	550
FS03*	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	183
FS04*	9/30/2025	1	0.0274	0.0717	<20.0	<25.0	<50.0	<25.0	<50.0	64.1
FS05*	9/30/2025	2	0.0347	0.0891	<20.0	<25.0	<50.0	<25.0	<50.0	592
FS06*	9/30/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	288
FS07*	9/30/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
FS08	9/30/2025	0.5	<0.0250	<0.0500	<20.0	31.6	<50.0	31.6	<50.0	2,180
FS09	9/30/2025	4	0.938	62.4	<20.0	7,210	2,550	7,210	9,760	24.8
FS10	9/30/2025	4	3.45	119	624	9,510	3,130	10,134	13,264	20.8
FS11	9/30/2025	4	0.110	1.83	<20.0	3,660	1,690	3,660	5,350	1,300
FS12	9/30/2025	4	0.0844	12	118	2,280	863	2,398	3,261	344
FS13	9/30/2025	4	11.1	225	1,290	9,730	3,660	11,020	14,680	685
FS14	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	855
FS15	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.1
FS16	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.8
FS17	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS18	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS19	2/23/2026	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.1
FS20	2/23/2026	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.2
FS21	2/25/2026	8	<0.0250	<0.0500	<20.0	174	61.4	174	235	51.7
FS22	2/25/2026	8	<0.0250	<0.0500	<20.0	75.7	50.3	75.7	126	354
FS23	2/25/2026	10	<0.0250	<0.0500	<20.0	58.3	53.6	58.3	112	152
FS24	2/25/2026	10	<0.0250	<0.0500	<20.0	43.7	<50.0	43.7	<50.0	114
FS25	2/25/2026	10	<0.0250	<0.0500	<20.0	148	56.3	148	204.3	194
FS26	2/25/2026	10	<0.0250	<0.0500	<20.0	146	59.2	146	205.2	393
FS27	2/25/2026	10	<0.0250	<0.0500	<20.0	133	55.5	133	188.5	508



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Sidewall Soil Samples										
SW01*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	328
SW02*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
SW03*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.2
SW04*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.3
SW05*	9/30/2025	0-4	<0.0250	0.0529	<20.0	<25.0	<50.0	<25.0	<50.0	115
SW06*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117
SW07*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.1
SW08*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.0
SW09	9/30/2025	0-4	0.853	58.9	369	8,780	3,130	9,149	12,279	28.8
SW10	9/30/2025	0-4	0.152	28.2	301	8,340	2,660	8,641	11,301	47.3
SW11	9/30/2025	0-4	0.0278	1.51	23.7	1,960	1,170	1,984	3,154	989
SW12	9/30/2025	0-4	0.115	17.5	153	2,590	1,280	2,743	4,023	531
SW13	2/24/2026	0-8	<0.0250	<0.0500	<20.0	33.1	<50.0	33.1	<50.0	45.7
SW14	2/24/2026	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	230
SW15	2/24/2026	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.3
SW16	2/24/2026	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810
SW17	2/25/2026	0-10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	907
SW18	2/25/2026	0-10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,650
SW19	2/25/2026	0-10	<0.0250	<0.0500	<20.0	117	<50.0	117	117	798
SW20	2/25/2026	0-10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,030
SW21	2/25/2026	0-10	<0.0250	<0.0500	<20.0	25.0	<50.0	25.0	<50.0	214

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
Photographic Log



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 1 Date: 4/21/2025
Description: Lease Sign
View: North



Photograph 2 Date: 4/21/2025
Description: Release Area
View: Southeast



Photograph 3 Date: 4/21/2025
Description: Release Area
View: Southeast



Photograph 4 Date: 4/21/2025
Description: Release Area
View: South

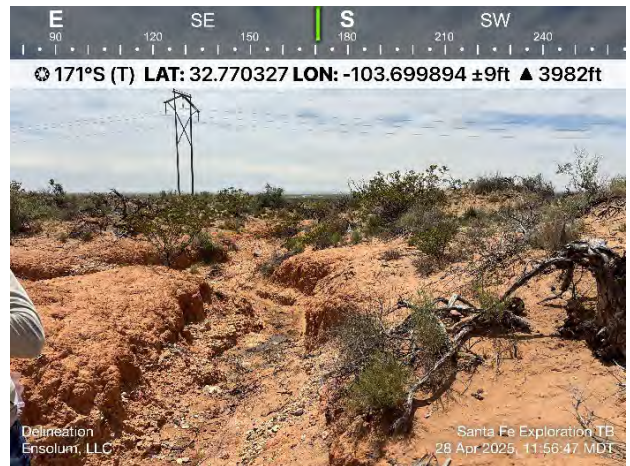


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 5 Date: 4/21/2025
Description: Release Extent
View: Southwest

Photograph 6 Date: 4/21/2025
Description: Release Extent
View: North

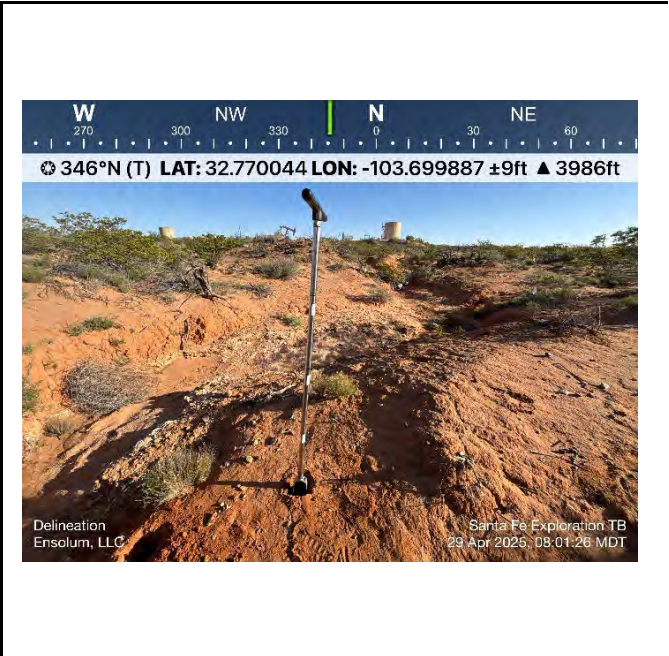


Photograph 6 Date: 4/28/2025
Description: Delineation
View: Northwest

Photograph 7 Date: 4/28/2025
Description: Delineation
View: South



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 9 Date: 4/29/2025
Description: Delineation
View: Northeast

Photograph 10 Date: 4/29/2025
Description: Delineation
View: North



Photograph 11 Date: 6/12/2025
Description: Delineation (BH01)
View: Northeast

Photograph 12 Date: 6/12/2025
Description: Delineation (BH01)
View: Northeast

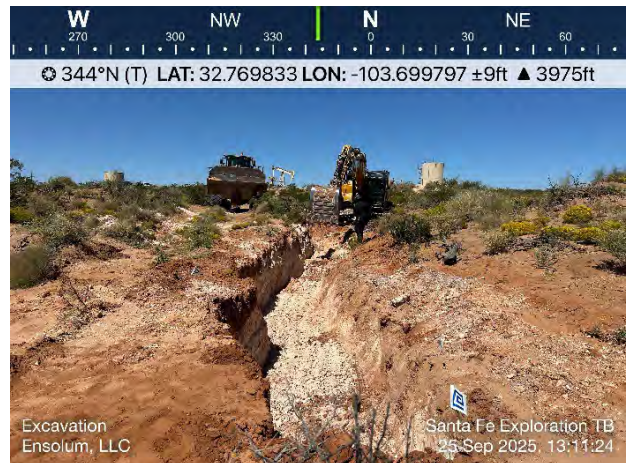


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 13 Date: 6/20/2025
Description: Delineation (BH04)
View: Southeast

Photograph 14 Date: 8/28/2025
Description: Depth to Water Boring
View: West



Photograph 15 Date: 8/28/2025
Description: Depth to Water Boring
View: East

Photograph 16 Date: 9/25/2025
Description: Excavation Activities
View: North



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 17 Date: 9/25/2025
Description: Excavation Activities
View: Northeast



Photograph 18 Date: 9/26/2025
Description: Excavation Activities
View: North



Photograph 19 Date: 9/26/2025
Description: Excavation Activities
View: Northeast



Photograph 20 Date: 9/29/2025
Description: Excavation Activities
View: Northeast



Photographic Log
 Matador Production Company
 Santa Fe Exploration TB
 nAPP2511224161



Photograph 21 Date: 9/29/2025
 Description: Excavation Activities
 View: South

Photograph 22 Date: 9/30/2025
 Description: Excavation Activities
 View: West



Photograph 23 Date: 10/16/2025
 Description: Delineation (SS11)
 View: East

Photograph 24 Date: 10/16/2025
 Description: Delineation (SS13)
 View: Southeast

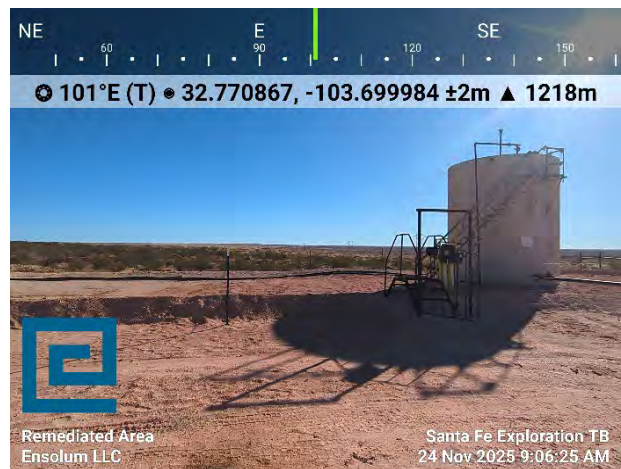


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 25 Date:11/24/2025
Description: Delineation (SS12C)
View: West

Photograph 26 Date:11/24/2025
Description: Delineation (SS12A)
View: West



Photograph 27 Date:11/24/2025
Description: Backfilled Release Area
View: East

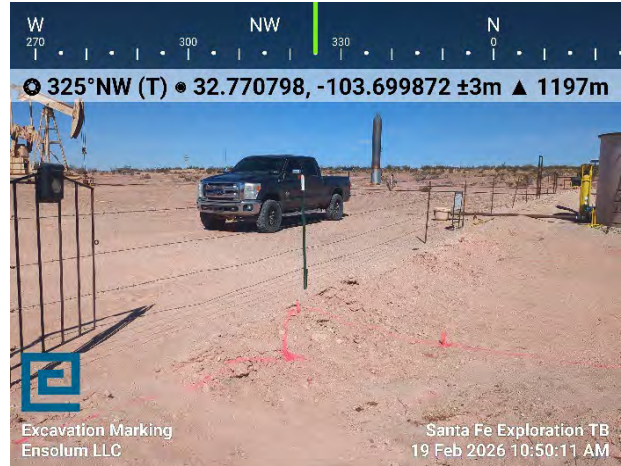
Photograph 28 Date:11/24/2025
Description: Backfilled Release Area
View: East



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 29 Date: 2/19/2026
Description: Excavation Markings
View: North



Photograph 30 Date: 2/19/2026
Description: Excavation Markings
View: Northwest



Photograph 31 Date: 2/19/2026
Description: Excavation Markings
View: East



Photograph 32 Date: 2/19/2026
Description: Excavation Markings
View: Southwest



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161

W 270 300 330 0 30 60
329°NW (T) 32°45'55"N, 103°42'19"W ±31899ft ▲ 0ft



Excavation
Ensolum LLC

Santa Fe Exploration TB
23 Feb 2026, 09:52:47

E 90 120 150 180 210 240
161°S (T) 32°46'15"N, 103°42'0"W ±16ft ▲ 4003ft



Excavation
Ensolum LLC

Santa Fe Exploration TB
23 Feb 2026, 10:54:04

Photograph 33

Date: 2/23/2026

Description: Excavation Activities

View: Northwest

Photograph 34

Date: 2/23/2026

Description: Excavation Activities

View: South

NE 30 60 90 120 150 180
112°E (T) 32°46'14"N, 103°42'0"W ±32ft ▲ 3978ft



Excavation
Ensolum LLC

Santa Fe Exploration TB
23 Feb 2026, 11:02:15

SE 150 180 210 240 270 300
229°SW (T) 32°46'14"N, 103°41'59"W ±22ft ▲ 4003ft



Excavation
Ensolum LLC

Santa Fe Exploration TB
23 Feb 2026, 11:22:43

Photograph 35

Date: 2/23/2026

Description: Excavation Activities

View: East

Photograph 36

Date: 2/23/2026

Description: Excavation Activities

View: Southwest



Photographic Log
 Matador Production Company
 Santa Fe Exploration TB
 nAPP2511224161



Photograph 37 Date: 2/24/2026
 Description: Excavation Activities
 View: South

Photograph 38 Date: 2/24/2026
 Description: Excavation Activities
 View: South



Photograph 39 Date: 2/24/2026
 Description: Excavation Activities
 View: Southeast

Photograph 40 Date: 2/24/2026
 Description: Excavation
 View: Southwest



Photographic Log
 Matador Production Company
 Santa Fe Exploration TB
 nAPP2511224161



Photograph 41 Date: 2/25/2026
 Description: Excavation
 View: Northwest

Photograph 42 Date: 2/25/2026
 Description: Excavation
 View: South



Photograph 43 Date: 2/25/2026
 Description: Excavation Activities
 View: South

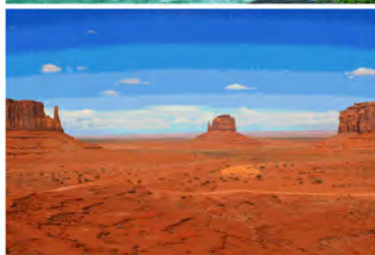
Photograph 44 Date: 2/25/2026
 Description: Excavation
 View: Northeast



APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E504299

Job Number: 23003-0002

Received: 4/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/6/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 5/6/25

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

Project Name: Santa Fe Exploration TB
Workorder: E504299
Date Received: 4/30/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/06/25 11:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E504299-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01-2'	E504299-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01-4.5'	E504299-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02-0'	E504299-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02-0.5'	E504299-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03-0'	E504299-06A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03-1'	E504299-07A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS01-0'	E504299-08A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS01-1'	E504299-09A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS02-0'	E504299-10A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS02-1'	E504299-11A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS03-0'	E504299-12A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS03-1'	E504299-13A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH01-0'
E504299-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	3.14	0.125	5	04/30/25	05/01/25	
Ethylbenzene	48.2	0.125	5	04/30/25	05/01/25	
Toluene	51.7	0.125	5	04/30/25	05/01/25	
o-Xylene	25.0	0.125	5	04/30/25	05/01/25	
p,m-Xylene	56.1	0.250	5	04/30/25	05/01/25	
Total Xylenes	81.1	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	1130	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	22700	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	10100	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		310 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	178	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH01-2'
E504299-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.0 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		84.6 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	449	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
---	---	---

BH01-4.5'

E504299-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.4 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	98.7	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	53.0	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		86.2 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	1070	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
---	---	---

BH02-0'
E504299-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	1.76	0.125	5	04/30/25	05/01/25	
Ethylbenzene	53.0	0.125	5	04/30/25	05/01/25	
Toluene	43.0	0.125	5	04/30/25	05/01/25	
o-Xylene	28.5	0.125	5	04/30/25	05/01/25	
p,m-Xylene	62.4	0.250	5	04/30/25	05/01/25	
Total Xylenes	90.9	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	1100	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	20500	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	7160	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		419 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH02-0.5'

E504299-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	272	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	127	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		83.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH03-0'
E504299-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	1.39	0.125	5	04/30/25	05/01/25	
Ethylbenzene	49.7	0.125	5	04/30/25	05/01/25	
Toluene	42.6	0.125	5	04/30/25	05/01/25	
o-Xylene	26.4	0.125	5	04/30/25	05/01/25	
p,m-Xylene	58.6	0.250	5	04/30/25	05/01/25	
Total Xylenes	85.0	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	1330	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	24400	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	10500	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		332 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	54.2	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH03-1'
E504299-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/02/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/02/25	
Toluene	ND	0.0250	1	04/30/25	05/02/25	
o-Xylene	ND	0.0250	1	04/30/25	05/02/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/02/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/30/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.5 %	70-130	04/30/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	186	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	113	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		84.5 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS01-0'

E504299-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		86.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	33.0	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS01-1'

E504299-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		89.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	513	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS02-0'

E504299-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.1 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		83.0 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS02-1'

E504299-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		83.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS03-0'

E504299-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		84.0 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS03-1'

E504299-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.5 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		82.8 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518054-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

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	8.22		8.00		103	70-130			

LCS (2518054-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	4.75	0.0250	5.00		94.9	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.27	0.0500	10.0		92.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.70		8.00		109	70-130			

Matrix Spike (2518054-MS1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.85	0.0250	5.00	ND	117	70-130			
Ethylbenzene	5.87	0.0250	5.00	ND	117	70-130			
Toluene	5.85	0.0250	5.00	ND	117	70-130			
o-Xylene	5.84	0.0250	5.00	ND	117	70-130			
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130			
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			

Matrix Spike Dup (2518054-MSD1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.88	0.0250	5.00	ND	118	70-130	0.590	27	
Ethylbenzene	5.94	0.0250	5.00	ND	119	70-130	1.31	26	
Toluene	5.90	0.0250	5.00	ND	118	70-130	0.849	20	
o-Xylene	5.90	0.0250	5.00	ND	118	70-130	0.970	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	1.31	23	
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130	1.20	26	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518054-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.11		8.00		76.4	70-130			

LCS (2518054-BS2)

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		81.0	70-130			

Matrix Spike (2518054-MS2)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.1	70-130			

Matrix Spike Dup (2518054-MSD2)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	5.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518064-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	40.9		50.0		81.9	61-141			

LCS (2518064-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	213	25.0	250		85.0	66-144			
Surrogate: <i>n</i> -Nonane	40.5		50.0		81.0	61-141			

Matrix Spike (2518064-MS1)

Source: E504299-03

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	277	25.0	250	98.7	71.4	56-156			
Surrogate: <i>n</i> -Nonane	44.1		50.0		88.2	61-141			

Matrix Spike Dup (2518064-MSD1)

Source: E504299-03

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	275	25.0	250	98.7	70.4	56-156	0.919	20	
Surrogate: <i>n</i> -Nonane	45.1		50.0		90.1	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518068-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	ND	20.0							
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LCS (2518068-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	252	20.0	250		101	90-110			
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Matrix Spike (2518068-MS1)

Source: E504296-03

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	1030	20.0	250	1130	NR	80-120			M4
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Matrix Spike Dup (2518068-MSD1)

Source: E504296-03

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	875	20.0	250	1130	NR	80-120	16.5	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/06/25 11:14
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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.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- 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: 4/28/2026 1:57:44 PM

Received by OCD: 4/1/2026 8:44:35 AM

52 of 23 pages

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Project: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO# E504299 Job Number 2303002				1D 2D 3D Std X				NM CO UT TX X			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
																Compliance	Y	or	N	
																PWSID #				
																			Remarks	
1002	4/28/2025	S	1	BH01-0'			1						X							3.2
1008	4/28/2025	S	1	BH01-2'			2						X							3.1
1133	4/28/2025	S	1	BH01-4.5'			3						X							2.8
1147	4/28/2025	S	1	BH02-0'			4						X							2.9
1152	4/28/2025	S	1	BH02-0.5'			5						X							2.5
1210	4/28/2025	S	1	BH03-0'			6						X							1.8
1218	4/28/2025	S	1	BH03-1'			7						X							1.2
1356	4/28/2025	S	1	SS01-0'			8						X							1.1
1355	4/28/2025	S	1	SS01-1'			9						X							2.6
1344	4/28/2025	S	1	SS02-0'			10						X							2.4

Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com

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

Sampled by: Higinio Gonzalez, Aboubakar Kone						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____					
<i>[Signature]</i>	4/29/25	1100	Michelle Gonzales	4-29-25	1100						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Michelle Gonzales</i>	4-29-25	1700	<i>[Signature]</i>	4-29-25	1700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	4-29-25	2330	<i>[Signature]</i>	4-30-25	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.



Page 50 of 57

Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E504299		230030002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
1345	4/28/2025	S	1	SS02-1'			11						X						3.2	
1234	4/28/2025	S	1	SS03-0'			12						X						3.6	
1235	4/28/2025	S	1	SS03-1'			13						X						3.0	

Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com

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

Sampled by: Higinio Gonzalez, Aboubakar Kone

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
<i>[Signature]</i>	4/29/25	1100	Michelle Gonzales	4.29.25	1100	
Michelle Gonzales	4-29-25	1700	John J.	4.29.25	1700	
John J.	4.29.25	2330	Carth Mar	4.29.25	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: 4/30/2025 10:46:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 04/30/25 08:00 Work Order ID: E504299
Phone: (972) 371-5200 Date Logged In: 04/29/25 15:10 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 05/06/25 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

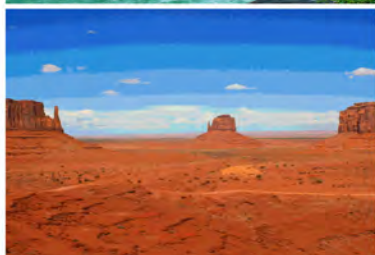
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E504315

Job Number: 23003-0002

Received: 5/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 5/7/25

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

Project Name: Santa Fe Exploration TB
Workorder: E504315
Date Received: 5/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/1/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 11:34
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04-0'	E504315-01A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS04-1'	E504315-02A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-0'	E504315-03A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-1'	E504315-04A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS07-0'	E504315-05A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS07-1'	E504315-06A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS08-0'	E504315-07A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS08-1'	E504315-08A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS09-0'	E504315-09A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS09-1'	E504315-10A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS04-0'

E504315-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.4 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	ND	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS04-1'

E504315-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.9 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	31.8	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
---	---	---

SS05-0'

E504315-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		77.3 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	53.8	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS05-1'

E504315-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.0 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	142	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS07-0'

E504315-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.2 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	31.1	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS07-1'

E504315-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	78.7	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS08-0'

E504315-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.0 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	47.9	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS08-1'

E504315-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.1 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	103	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS09-0'

E504315-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.8 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	117	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS09-1'

E504315-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.4 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	222	20.0	1	05/01/25	05/02/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

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	8.45		8.00		106	70-130			

LCS (2518087-BS1)

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.66	0.0250	5.00		93.3	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.94	0.0250	5.00		98.9	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.5	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike (2518087-MS1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.99	0.0250	5.00	ND	99.8	70-130			
Ethylbenzene	5.31	0.0250	5.00	ND	106	70-130			
Toluene	5.18	0.0250	5.00	ND	104	70-130			
o-Xylene	5.30	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

Matrix Spike Dup (2518087-MSD1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.68	0.0250	5.00	ND	93.7	70-130	6.34	27	
Ethylbenzene	5.01	0.0250	5.00	ND	100	70-130	5.95	26	
Toluene	4.87	0.0250	5.00	ND	97.4	70-130	6.19	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	70-130	6.07	25	
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	70-130	5.91	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	70-130	5.96	26	
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.49		8.00		81.1	70-130			

LCS (2518087-BS2)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00		81.5	70-130			

Matrix Spike (2518087-MS2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

Matrix Spike Dup (2518087-MSD2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	2.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518084-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.3		50.0		105	61-141			

LCS (2518084-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144			
Surrogate: <i>n</i> -Nonane	51.5		50.0		103	61-141			

Matrix Spike (2518084-MS1)

Source: E504316-06

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	56-156			
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	61-141			

Matrix Spike Dup (2518084-MSD1)

Source: E504316-06

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156	0.717	20	
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518093-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride ND 20.0

LCS (2518093-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride 256 20.0 250 102 90-110

Matrix Spike (2518093-MS1)

Source: E504304-28

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride 406 20.0 250 167 95.6 80-120

Matrix Spike Dup (2518093-MSD1)

Source: E504304-28

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride 438 20.0 250 167 108 80-120 7.42 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 11:34
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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

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Matador Project: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO# E504315 Job Number 23003-0002				1D 2D 3D Std X				NM CO UT TX X							
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 800.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks
0927	4-29-25	S	1	SS04 - 0'		1						X											4.1
0924		S	1	SS04 - 1'		2						X											3.7
1414		S	1	SS05 - 0'		3						X											2.6
1426		S	1	SS05 - 1'		4						X											2.6
1201		S	1	SS07 - 0'		5						X											3.0
1202		S	1	SS07 - 1'		6						X											2.9
1125		S	1	SS08 - 0'		7						X											3.2
1136		S	1	SS08 - 1'		8						X											2.4
1512		S	1	SS09 - 0'		9						X											2.9
1943		S	1	SS09 - 1'		10						X											3.3
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>Higinio Gonzalez, Aboubakar Kone</u>																							
Relinquished by: (Signature) 		Date <u>4-30-25</u>		Time		Received by: (Signature) <u>Michelle Gonzalez</u>		Date <u>4-30-25</u>		Time <u>1015</u>		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____											
Relinquished by: (Signature) <u>Michelle Gonzalez</u>		Date <u>4-30-25</u>		Time <u>1540</u>		Received by: (Signature) <u>Richard Gonzalez</u>		Date <u>4-30-25</u>		Time <u>1540</u>													
Relinquished by: (Signature) <u>Richard Gonzalez</u>		Date <u>4-30-25</u>		Time <u>2130</u>		Received by: (Signature) <u>Paula Mor</u>		Date <u>5-1-25</u>		Time <u>730</u>													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



Envirotech Analytical Laboratory

Printed: 5/1/2025 8:31:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 05/01/25 07:30	Work Order ID: E504315
Phone: (972) 371-5200	Date Logged In: 04/30/25 14:38	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 05/07/25 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: Santa Fe Exploration TB

Work Order: E506064

Job Number: 23003-0002

Received: 6/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/16/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/16/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506064
Date Received: 6/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/10/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/16/25 16:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06 - 0'	E506064-01A	Soil	06/06/25	06/10/25	Glass Jar, 2 oz.
SS06 - 1'	E506064-02A	Soil	06/06/25	06/10/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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SS06 - 0'

E506064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Benzene	ND	0.0250	1	06/10/25	06/12/25	
Ethylbenzene	ND	0.0250	1	06/10/25	06/12/25	
Toluene	ND	0.0250	1	06/10/25	06/12/25	
o-Xylene	ND	0.0250	1	06/10/25	06/12/25	
p,m-Xylene	ND	0.0500	1	06/10/25	06/12/25	
Total Xylenes	ND	0.0250	1	06/10/25	06/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.0 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/25	06/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2524060
Diesel Range Organics (C10-C28)	ND	25.0	1	06/10/25	06/12/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/25	06/12/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	06/10/25	06/12/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2524072
Chloride	ND	20.0	1	06/11/25	06/11/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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SS06 - 1'

E506064-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Benzene	ND	0.0250	1	06/10/25	06/12/25	
Ethylbenzene	ND	0.0250	1	06/10/25	06/12/25	
Toluene	ND	0.0250	1	06/10/25	06/12/25	
o-Xylene	ND	0.0250	1	06/10/25	06/12/25	
p,m-Xylene	ND	0.0500	1	06/10/25	06/12/25	
Total Xylenes	ND	0.0250	1	06/10/25	06/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.3 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/25	06/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2524060
Diesel Range Organics (C10-C28)	ND	25.0	1	06/10/25	06/12/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/25	06/12/25	
<i>Surrogate: n-Nonane</i>						
		99.3 %	61-141	06/10/25	06/12/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2524072
Chloride	39.9	20.0	1	06/11/25	06/11/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524034-BLK1)

Prepared: 06/10/25 Analyzed: 06/11/25

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	7.30		8.00		91.2	70-130			

LCS (2524034-BS1)

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.2	70-130			

Matrix Spike (2524034-MS1)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	5.13	0.0250	5.00	ND	103	70-130			
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130			
Toluene	5.11	0.0250	5.00	ND	102	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130			
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2524034-MSD1)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	4.59	0.0250	5.00	ND	91.9	70-130	11.0	27	
Ethylbenzene	4.53	0.0250	5.00	ND	90.7	70-130	11.0	26	
Toluene	4.57	0.0250	5.00	ND	91.3	70-130	11.2	20	
o-Xylene	4.52	0.0250	5.00	ND	90.3	70-130	10.6	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	10.7	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.4	70-130	10.6	26	
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524034-BLK1)

Prepared: 06/10/25 Analyzed: 06/11/25

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

LCS (2524034-BS2)

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

Matrix Spike (2524034-MS2)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike Dup (2524034-MSD2)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	3.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524060-BLK1)

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.2	61-141			

LCS (2524060-BS1)

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: <i>n</i> -Nonane	49.3		50.0		98.6	61-141			

Matrix Spike (2524060-MS1)

Source: E506067-01

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	61-141			

Matrix Spike Dup (2524060-MSD1)

Source: E506067-01

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156	1.24	20	
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524072-BLK1)

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride ND 20.0

LCS (2524072-BS1)

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 255 20.0 250 102 90-110

Matrix Spike (2524072-MS1)

Source: E506063-03

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 275 20.0 250 ND 110 80-120

Matrix Spike Dup (2524072-MSD1)

Source: E506063-03

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 274 20.0 250 ND 110 80-120 0.151 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/16/25 16:00
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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 Project Name: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com	Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:	Lab WO# E 506064	Job Number 23003-002	1D	2D	3D	Std	NM	CO	UT	TX			
							X	X						
Analysis and Method								EPA Program						
												SDWA	CWA	RCRA
												Compliance Y or N		
												PWSID #		
												Sample Temp		Remarks

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	Sample Temp	Remarks
11:06	6/6/2025	Soil	1	SS06 - 0'		1								X		3.4	
11:08	6/6/2025	Soil	1	SS06 - 1'		2								X		3.6	

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.

Relinquished by: (Signature) <i>[Signature]</i>	Date 6/9/25	Time 7:11	Received by: (Signature) <i>Michelle Gonzalez</i>	Date 6-9-25	Time 1356	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) <i>Michelle Gonzalez</i>	Date 6-9-25	Time 1615	Received by: (Signature) <i>[Signature]</i>	Date 6-9-25	Time 1630	
Relinquished by: (Signature) <i>[Signature]</i>	Date 6-9-25	Time 2300	Received by: (Signature) <i>Noe Soto</i>	Date 6-10-25	Time 0800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

Released to Imaging: 4/28/2026 1:57:44 PM

Received by OCD: 4/1/2026 8:44:35 AM

Page 85 of 657

Envirotech Analytical Laboratory

Printed: 6/10/2025 1:34:07PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 06/10/25 08:00 Work Order ID: E506064
Phone: (972) 371-5200 Date Logged In: 06/09/25 15:53 Logged In By: Noe Soto
Email: agiovengo@ensolum.com Due Date: 06/16/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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: Santa Fe Exploration TB

Work Order: E510033

Job Number: 23003-0002

Received: 10/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/25

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: 10/9/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510033
Date Received: 10/3/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2025 7:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/25 08:34
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS09A-0'	E510033-01A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09A-1'	E510033-02A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09B-0'	E510033-03A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09B-1'	E510033-04A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS10-0'	E510033-05A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS10-1'	E510033-06A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09A-0'

E510033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.3 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2540126	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540128	
Chloride	40.9	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09A-1'

E510033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	651	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09B-0'

E510033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.9 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	191	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09B-1'
E510033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	66.3	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS10-0'

E510033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.8 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		98.2 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	3350	40.0	2	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS10-1'

E510033-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.2 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	1860	40.0	2	10/03/25	10/04/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540134-BLK1)

Prepared: 10/03/25 Analyzed: 10/06/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

LCS (2540134-BS1)

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		94.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike (2540134-MS1)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00	ND	92.6	70-130			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	70-130			
Toluene	4.74	0.0250	5.00	ND	94.8	70-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	70-130			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2540134-MSD1)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.91	0.0250	5.00	ND	98.2	70-130	5.88	27	
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130	6.46	26	
Toluene	5.04	0.0250	5.00	ND	101	70-130	6.05	20	
o-Xylene	5.08	0.0250	5.00	ND	102	70-130	5.93	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	6.36	23	
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130	6.22	26	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2540134-BLK1)

Prepared: 10/03/25 Analyzed: 10/06/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.78		8.00		110	70-130		

LCS (2540134-BS2)

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130		

Matrix Spike (2540134-MS2)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		107	70-130		

Matrix Spike Dup (2540134-MSD2)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	1.57	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540126-BLK1)

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

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.2		50.0		98.4		61-141		

LCS (2540126-BS1)

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

Diesel Range Organics (C10-C28)	258	25.0	250		103		66-144		
Surrogate: <i>n</i> -Nonane	48.3		50.0		96.7		61-141		

Matrix Spike (2540126-MS1)

Source: E510033-06

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

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107		56-156		
Surrogate: <i>n</i> -Nonane	50.2		50.0		100		61-141		

Matrix Spike Dup (2540126-MSD1)

Source: E510033-06

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

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108		56-156	1.48	20
Surrogate: <i>n</i> -Nonane	51.0		50.0		102		61-141		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540128-BLK1)

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

Chloride ND 20.0

LCS (2540128-BS1)

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

Chloride 255 20.0 250 102 90-110

Matrix Spike (2540128-MS1)

Source: E510032-03

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

Chloride 255 20.0 250 ND 102 80-120

Matrix Spike Dup (2540128-MSD1)

Source: E510032-03

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

Chloride 257 20.0 250 ND 103 80-120 0.873 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/25 08:34
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510033		23003-0002						x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/GRO 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
9:30	10/1/2025	Soil	1	SS09A - 0'		1								x		3.1			
9:33	10/1/2025	Soil	1	SS09A - 1'		2								x		2.3			
9:37	10/1/2025	Soil	1	SS09B - 0'		3								x		3.1			
9:43	10/1/2025	Soil	1	SS09B - 1'		4								x		1.4			
9:48	10/1/2025	Soil	1	SS10 - 0'		5								x		3.6			
9:50	10/1/2025	Soil	1	SS10 - 1'		6								x		3.1			
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: <input checked="" type="radio"/> Y <input type="radio"/> N							
<i>Michelle Gonzalez</i>		10/2/25		7:11		<i>Michelle Gonzalez</i>		10-2-25		0711									
<i>Michelle Gonzalez</i>		10-2-25		1500		<i>Marissa Gonzalez</i>		10-2-25		1500									
<i>Marissa Gonzalez</i>		10-2-25		1900		<i>Andrew Musso</i>		10-2-25		1900									
<i>Andrew Musso</i>		10-2-25		2330		<i>Caitlin Han</i>		10-3-25		700									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 10/3/2025 9:39:48AM

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: 10/03/25 07:00	Work Order ID: E510033
Phone: (972) 371-5200	Date Logged In: 10/02/25 15:33	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 10/09/25 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: Santa Fe Exploration TB

Work Order: E506122

Job Number: 23003-0002

Received: 6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/20/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506122
Date Received: 6/16/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/20/25 07:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-6'	E506122-01A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH01-8'	E506122-02A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH02-1'	E506122-03A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH03-2'	E506122-04A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH01-6'
E506122-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2525015	
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2525015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2525052	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		94.8 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2525044	
Chloride	1200	40.0	2	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH01-8'
E506122-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>		96.4 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	706	20.0	1	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH02-1'
E506122-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.0 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		98.1 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	99.3	20.0	1	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH03-2'
E506122-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	ND	20.0	1	06/17/25	06/17/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525015-BLK1)

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

LCS (2525015-BS1)

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike (2525015-MS1)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.97	0.0250	5.00	ND	99.5	70-130			
Ethylbenzene	4.90	0.0250	5.00	ND	98.1	70-130			
Toluene	4.94	0.0250	5.00	ND	98.7	70-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	70-130			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike Dup (2525015-MSD1)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.81	0.0250	5.00	ND	96.2	70-130	3.36	27	
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130	2.72	26	
Toluene	4.79	0.0250	5.00	ND	95.7	70-130	3.07	20	
o-Xylene	4.78	0.0250	5.00	ND	95.6	70-130	2.52	25	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	70-130	2.33	23	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	70-130	2.39	26	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525015-BLK1)

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		8.00		102	70-130			

LCS (2525015-BS2)

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike (2525015-MS2)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

Matrix Spike Dup (2525015-MSD2)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.7	70-130	3.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525052-BLK1)

Prepared: 06/17/25 Analyzed: 06/17/25

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

LCS (2525052-BS1)

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	245	25.0	250		97.8	66-144			
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.1	61-141			

Matrix Spike (2525052-MS1)

Source: E506114-01

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	300	25.0	250	59.7	96.3	56-156			
Surrogate: <i>n</i> -Nonane	48.9		50.0		97.8	61-141			

Matrix Spike Dup (2525052-MSD1)

Source: E506114-01

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	305	25.0	250	59.7	98.0	56-156	1.40	20	
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.1	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525044-BLK1)

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride ND 20.0

LCS (2525044-BS1)

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 250 20.0 250 100 90-110

Matrix Spike (2525044-MS1)

Source: E506134-01

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 250 20.0 250 ND 99.8 80-120

Matrix Spike Dup (2525044-MSD1)

Source: E506134-01

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 249 20.0 250 ND 99.8 80-120 0.0393 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/20/25 07:37
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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.



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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E5060122		23003-0022					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Chloride 300.0	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
10:43	6/12/2025	Soil	1	BH01 - 6'		1								X					
12:25	6/12/2025	Soil	1	BH01 - 8'		2								X					
11:00	6/12/2025	Soil	1	BH02 - 1'		3								X					
11:13	6/12/2025	Soil	1	BH03 - 2'		4								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: <input checked="" type="radio"/> Y <input type="radio"/> N													
<i>Israel Estrella</i>	6/13/25	7:11	<i>Michelle Gonzales</i>	6-13-25	0711														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Michelle Gonzales</i>	6-14-25	0240	<i>Caitlynn Mann</i>	6-16-25	730														
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: 6/16/2025 9:38:35AM

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: 06/16/25 07:30 Work Order ID: E506122
Phone: (972) 371-5200 Date Logged In: 06/13/25 15:47 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 06/20/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Work Order: E506180

Job Number: 23003-0002

Received: 6/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/26/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/26/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506180
Date Received: 6/23/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2025 6:45:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/26/25 13:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-0'	E506180-01A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-2'	E506180-02A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-4'	E506180-03A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-6'	E506180-04A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-8'	E506180-05A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-0'
E506180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	2.29	0.125	5	06/20/25	06/23/25	
Ethylbenzene	31.5	0.125	5	06/20/25	06/23/25	
Toluene	31.5	0.125	5	06/20/25	06/23/25	
o-Xylene	16.3	0.125	5	06/20/25	06/23/25	
p,m-Xylene	36.0	0.250	5	06/20/25	06/23/25	
Total Xylenes	52.2	0.125	5	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	730	100	5	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	19600	500	20	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	7120	1000	20	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		309 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	162	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-2'
E506180-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	21.2	0.250	10	06/20/25	06/23/25	
Ethylbenzene	41.2	0.250	10	06/20/25	06/23/25	
Toluene	94.8	0.250	10	06/20/25	06/23/25	
o-Xylene	18.0	0.250	10	06/20/25	06/23/25	
p,m-Xylene	43.4	0.500	10	06/20/25	06/23/25	
Total Xylenes	61.4	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1010	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	10100	250	10	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	3310	500	10	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>		320 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1030	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-4'
E506180-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	17.8	0.250	10	06/20/25	06/23/25	
Ethylbenzene	62.0	0.250	10	06/20/25	06/23/25	
Toluene	110	0.250	10	06/20/25	06/23/25	
o-Xylene	26.9	0.250	10	06/20/25	06/23/25	
p,m-Xylene	69.9	0.500	10	06/20/25	06/23/25	
Total Xylenes	96.9	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1660	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		118 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	9830	250	10	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	2930	500	10	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		334 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1070	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-6'
E506180-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	28.6	0.250	10	06/20/25	06/23/25	
Ethylbenzene	69.6	0.250	10	06/20/25	06/23/25	
Toluene	144	0.250	10	06/20/25	06/23/25	
o-Xylene	28.9	0.250	10	06/20/25	06/23/25	
p,m-Xylene	76.6	0.500	10	06/20/25	06/23/25	
Total Xylenes	106	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1890	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	10500	500	20	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	3660	1000	20	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		395 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	806	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-8'
E506180-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	13.3	0.250	10	06/20/25	06/23/25	
Ethylbenzene	24.4	0.250	10	06/20/25	06/23/25	
Toluene	56.3	0.250	10	06/20/25	06/23/25	
o-Xylene	10.1	0.250	10	06/20/25	06/23/25	
p,m-Xylene	26.2	0.500	10	06/20/25	06/23/25	
Total Xylenes	36.2	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	555	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	3120	50.0	2	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	846	100	2	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		190 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1120	20.0	1	06/24/25	06/24/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

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	8.19		8.00		102	70-130			

LCS (2525110-BS1)

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2525110-MS1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	27.8	0.125	25.0	2.29	102	70-130			
Ethylbenzene	56.7	0.125	25.0	31.5	101	70-130			
Toluene	57.8	0.125	25.0	31.5	105	70-130			
o-Xylene	41.2	0.125	25.0	16.3	99.6	70-130			
p,m-Xylene	86.2	0.250	50.0	36.0	101	70-130			
Total Xylenes	127	0.125	75.0	52.2	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	49.4		40.0		123	70-130			

Matrix Spike Dup (2525110-MSD1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	30.2	0.125	25.0	2.29	112	70-130	8.06	27	
Ethylbenzene	60.9	0.125	25.0	31.5	118	70-130	7.03	26	
Toluene	61.4	0.125	25.0	31.5	120	70-130	6.02	20	
o-Xylene	44.5	0.125	25.0	16.3	113	70-130	7.82	25	
p,m-Xylene	92.8	0.250	50.0	36.0	114	70-130	7.34	23	
Total Xylenes	137	0.125	75.0	52.2	113	70-130	7.50	26	
Surrogate: 4-Bromochlorobenzene-PID	50.3		40.0		126	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			

LCS (2525110-BS2)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			

Matrix Spike (2525110-MS2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1070	100	250	730	135	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	48.9		40.0		122	70-130			

Matrix Spike Dup (2525110-MSD2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1040	100	250	730	124	70-130	2.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	50.1		40.0		125	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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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 (2526028-BLK1)

Prepared: 06/23/25 Analyzed: 06/24/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.8		50.0		99.6	61-141			

LCS (2526028-BS1)

Prepared: 06/23/25 Analyzed: 06/24/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: <i>n</i> -Nonane	47.4		50.0		94.7	61-141			S5

Matrix Spike (2526028-MS1)

Source: E506183-05

Prepared: 06/23/25 Analyzed: 06/25/25

Diesel Range Organics (C10-C28)	4780	25.0	250	4340	178	56-156			M4
Surrogate: <i>n</i> -Nonane	76.0		50.0		152	61-141			S5

Matrix Spike Dup (2526028-MSD1)

Source: E506183-05

Prepared: 06/23/25 Analyzed: 06/25/25

Diesel Range Organics (C10-C28)	5360	25.0	250	4340	410	56-156	11.4	20	M4
Surrogate: <i>n</i> -Nonane	75.0		50.0		150	61-141			S5



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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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 (2526010-BLK1)

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride ND 20.0

LCS (2526010-BS1)

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 254 20.0 250 101 90-110

Matrix Spike (2526010-MS1)

Source: E506183-02

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 268 20.0 250 ND 107 80-120

Matrix Spike Dup (2526010-MSD1)

Source: E506183-02

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 270 20.0 250 ND 108 80-120 0.821 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/26/25 13:39
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- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- 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 Project Name: <i>Santa Fe Exploration TB</i> Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: <i>agiovengo@ensolum.com</i>	Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: <i>agiovengo@ensolum.com</i> Miscellaneous:	Lab WO# <i>E500180</i> Job Number <i>23003002</i>	1D 2D 3D Std x	NM CO UT TX x

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	
9:44	6/19/2025	Soil	1	BH04 - 0'		1								x					
10:05	6/19/2025	Soil	1	BH04 - 2'		2								x					
10:30	6/19/2025	Soil	1	BH04 - 4'		3								x					
10:50	6/19/2025	Soil	1	BH04 - 6'		4								x					
11:12	6/19/2025	Soil	1	BH04 - 8'		5								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: *Gus Sanchez & Israel Estrella*

Relinquished by: (Signature) <i>[Signature]</i>	Date <i>6/20/25</i>	Time <i>7:15</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>6-20-25</i>	Time <i>1115</i>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date <i>6-20-25</i>	Time <i>1045</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>6/20/25</i>	Time <i>1720</i>	
Relinquished by: (Signature) <i>[Signature]</i>	Date <i>6/20/25</i>	Time <i>1235am</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>6-23-25</i>	Time <i>1045</i>	
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: 6/23/2025 11:54:56AM

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: 06/23/25 06:45	Work Order ID: E506180
Phone: (972) 371-5200	Date Logged In: 06/20/25 13:20	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 06/27/25 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: Santa Fe Exploration TB

Work Order: E506211

Job Number: 23003-0002

Received: 6/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/30/25

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: 6/30/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506211
Date Received: 6/24/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/24/2025 7:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/30/25 13:59
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-10'	E506211-01A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-12'	E506211-02A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-14'	E506211-03A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-16'	E506211-04A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH05-0'	E506211-05A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-10'
E506211-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	1.11	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	5.37	0.0250	1	06/24/25	06/28/25	
Toluene	8.96	0.0250	1	06/24/25	06/28/25	
o-Xylene	2.44	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	5.77	0.0500	1	06/24/25	06/28/25	
Total Xylenes	8.21	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	115	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	765	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	266	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	200	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-12'

E506211-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.0449	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.531	0.0250	1	06/24/25	06/28/25	
Toluene	0.355	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.266	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	0.746	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.01	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	310	25.0	1	06/25/25	06/29/25	
Oil Range Organics (C28-C36)	126	50.0	1	06/25/25	06/29/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	06/25/25	06/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	191	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-14'

E506211-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.0512	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.560	0.0250	1	06/24/25	06/28/25	
Toluene	0.556	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.269	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	0.762	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.03	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	400	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	161	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	335	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-16'

E506211-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.234	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.932	0.0250	1	06/24/25	06/28/25	
Toluene	1.45	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.391	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	1.10	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.49	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	22.0	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	63.0	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	257	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH05-0'
E506211-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	7.27	0.125	5	06/24/25	06/28/25	
Ethylbenzene	95.7	0.125	5	06/24/25	06/28/25	
Toluene	108	0.125	5	06/24/25	06/28/25	
o-Xylene	48.8	0.125	5	06/24/25	06/28/25	
p,m-Xylene	99.0	0.250	5	06/24/25	06/28/25	
Total Xylenes	148	0.125	5	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	1450	100	5	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	42100	500	20	06/25/25	06/29/25	T9
Oil Range Organics (C28-C36)	11700	1000	20	06/25/25	06/29/25	
<i>Surrogate: n-Nonane</i>		842 %	61-141	06/25/25	06/29/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	ND	20.0	1	06/26/25	06/27/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526046-BLK1)

Prepared: 06/24/25 Analyzed: 06/28/25

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	8.24		8.00		103	70-130			

LCS (2526046-BS1)

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.52	0.0250	5.00		110	70-130			
Ethylbenzene	5.37	0.0250	5.00		107	70-130			
Toluene	5.47	0.0250	5.00		109	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

Matrix Spike (2526046-MS1)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.15	0.0250	5.00	0.0512	102	70-130			
Ethylbenzene	6.02	0.0250	5.00	0.560	109	70-130			
Toluene	6.06	0.0250	5.00	0.556	110	70-130			
o-Xylene	5.41	0.0250	5.00	0.269	103	70-130			
p,m-Xylene	11.3	0.0500	10.0	0.762	105	70-130			
Total Xylenes	16.7	0.0250	15.0	1.03	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.63		8.00		108	70-130			

Matrix Spike Dup (2526046-MSD1)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.53	0.0250	5.00	0.0512	110	70-130	7.08	27	
Ethylbenzene	6.39	0.0250	5.00	0.560	117	70-130	5.93	26	
Toluene	6.42	0.0250	5.00	0.556	117	70-130	5.81	20	
o-Xylene	5.80	0.0250	5.00	0.269	111	70-130	6.86	25	
p,m-Xylene	12.0	0.0500	10.0	0.762	112	70-130	6.27	23	
Total Xylenes	17.8	0.0250	15.0	1.03	112	70-130	6.46	26	
Surrogate: 4-Bromochlorobenzene-PID	8.69		8.00		109	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526046-BLK1)

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

LCS (2526046-BS2)

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike (2526046-MS2)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	81.5	20.0	50.0	ND	163	70-130			M6
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.4	70-130			

Matrix Spike Dup (2526046-MSD2)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	84.2	20.0	50.0	ND	168	70-130	3.34	20	M6
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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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 (2526101-BLK1)

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	62.4		50.0		125	61-141			

LCS (2526101-BS1)

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	273	25.0	250		109	66-144			
Surrogate: <i>n</i> -Nonane	49.0		50.0		97.9	61-141			

Matrix Spike (2526101-MS1)

Source: E506212-02

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156			
Surrogate: <i>n</i> -Nonane	49.2		50.0		98.5	61-141			

Matrix Spike Dup (2526101-MSD1)

Source: E506212-02

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	5.02	20	
Surrogate: <i>n</i> -Nonane	51.9		50.0		104	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526107-BLK1)

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride ND 20.0

LCS (2526107-BS1)

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 250 20.0 250 99.8 90-110

Matrix Spike (2526107-MS1)

Source: E506177-03

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 5360 200 250 5110 101 80-120

Matrix Spike Dup (2526107-MSD1)

Source: E506177-03

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 5390 200 250 5110 114 80-120 0.612 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/30/25 13:59
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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.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E506211		28003-0002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information					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 900.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
9:54	6/20/2025	Soil	1	BH04 - 10'		1								X					
10:35	6/20/2025	Soil	1	BH04 - 12'		2								X					
11:49	6/20/2025	Soil	1	BH04 - 14'		3								X					
14:09	6/20/2025	Soil	1	BH04 - 16'		4								X					
14:31	6/20/2025	Soil	1	BH05 - 0'		5								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.

Relinquished by: (Signature) <i>[Signature]</i> Date: 6/23/25 Time: 7:11							Received by: (Signature) <i>[Signature]</i> Date: 6-23-25 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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i> Date: 6-23-25 Time: 1545							Received by: (Signature) <i>[Signature]</i> Date: 6-23-25 Time: 1545							
Relinquished by: (Signature) <i>[Signature]</i> Date: 6-23-25 Time: 1915							Received by: (Signature) <i>[Signature]</i> Date: 6-23-25 Time: 1915							
Relinquished by: (Signature) <i>[Signature]</i> Date: 6-23-25 Time: 2345							Received by: (Signature) <i>[Signature]</i> Date: 6-24-25 Time: 700							
Relinquished by: (Signature) _____ Date: _____ Time: _____							Received by: (Signature) _____ Date: _____ Time: _____							

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

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

Envirotech Analytical Laboratory

Printed: 6/24/2025 9:30:06AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/24/25 07:00	Work Order ID: E506211
Phone: (972) 371-5200	Date Logged In: 06/23/25 15:47	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 06/30/25 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: Santa Fe Exploration TB

Work Order: E506226

Job Number: 23003-0002

Received: 6/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/1/25

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: 7/1/25

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



Project Name: Santa Fe Exploration TB
Workorder: E506226
Date Received: 6/25/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/25/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/01/25 15:15
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-2'	E506226-01A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH05-4'	E506226-02A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH05-6'	E506226-03A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-2'
E506226-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2526076	
Benzene	9.92	0.125	5	06/24/25	07/01/25	
Ethylbenzene	29.1	0.125	5	06/24/25	07/01/25	
Toluene	57.4	0.125	5	06/24/25	07/01/25	
o-Xylene	13.4	0.125	5	06/24/25	07/01/25	
p,m-Xylene	30.1	0.250	5	06/24/25	07/01/25	
Total Xylenes	43.5	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2526076	
Gasoline Range Organics (C6-C10)	441	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2526124	
Diesel Range Organics (C10-C28)	4810	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1490	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		133 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2526133	
Chloride	40.3	20.0	1	06/26/25	06/27/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-4'
E506226-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Benzene	7.25	0.125	5	06/24/25	07/01/25	
Ethylbenzene	27.6	0.125	5	06/24/25	07/01/25	
Toluene	49.2	0.125	5	06/24/25	07/01/25	
o-Xylene	12.7	0.125	5	06/24/25	07/01/25	
p,m-Xylene	28.4	0.250	5	06/24/25	07/01/25	
Total Xylenes	41.1	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Gasoline Range Organics (C6-C10)	386	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526124
Diesel Range Organics (C10-C28)	4590	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1520	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
		136 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2526133
Chloride	ND	20.0	1	06/26/25	06/27/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-6'
E506226-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Benzene	5.57	0.125	5	06/24/25	07/01/25	
Ethylbenzene	15.9	0.125	5	06/24/25	07/01/25	
Toluene	30.7	0.125	5	06/24/25	07/01/25	
o-Xylene	7.25	0.125	5	06/24/25	07/01/25	
p,m-Xylene	16.1	0.250	5	06/24/25	07/01/25	
Total Xylenes	23.4	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Gasoline Range Organics (C6-C10)	243	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526124
Diesel Range Organics (C10-C28)	4790	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1840	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		89.7 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2526133
Chloride	26.5	20.0	1	06/26/25	06/27/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526076-BLK1)

Prepared: 06/24/25 Analyzed: 06/27/25

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	8.13		8.00		102	70-130			

LCS (2526076-BS1)

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.14	0.0250	5.00		103	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	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	8.12		8.00		102	70-130			

Matrix Spike (2526076-MS1)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.24	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

Matrix Spike Dup (2526076-MSD1)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.44	0.0250	5.00	ND	109	70-130	0.380	27	
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130	0.0356	26	
Toluene	5.41	0.0250	5.00	ND	108	70-130	0.149	20	
o-Xylene	5.26	0.0250	5.00	ND	105	70-130	0.311	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	0.0797	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	0.156	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526076-BLK1)

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

LCS (2526076-BS2)

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike (2526076-MS2)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2526076-MSD2)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130	1.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526124-BLK1)

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.3		50.0		98.7	61-141			

LCS (2526124-BS1)

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	293	25.0	250		117	66-144			
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.3	61-141			

Matrix Spike (2526124-MS1)

Source: E506227-02

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156			
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.0	61-141			

Matrix Spike Dup (2526124-MSD1)

Source: E506227-02

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	296	25.0	250	ND	118	56-156	1.07	20	
Surrogate: <i>n</i> -Nonane	47.5		50.0		94.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526133-BLK1)

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride ND 20.0

LCS (2526133-BS1)

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 254 20.0 250 102 90-110

Matrix Spike (2526133-MS1)

Source: E506223-03

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 366 20.0 250 111 102 80-120

Matrix Spike Dup (2526133-MSD1)

Source: E506223-03

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 371 20.0 250 111 104 80-120 1.18 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/01/25 15:15
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E500220		230030002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
Compliance																	Y	or	N		
PWSID #																	Sample Temp	Remarks			
9:59	6/23/2025	Soil	1	BH05 - 2'			1								X		1.1				
10:35	6/23/2025	Soil	1	BH05 - 4'			2								X		2.2				
11:43	6/23/2025	Soil	1	BH05 - 6'			3								X		1.4				

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: Gus Sanchez & 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: O/N										
<i>[Signature]</i>	6-24-25	07:15 am	Michelle Gonzales	6-24-25	0715											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Michelle Gonzales	6-24-25	1320	Marissa Gonzales	6-24-25	1320											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Marissa Gonzales	6-24-25	1825	Isabel J.	6-24-25	1825											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
Isabel J.	6-24-25	2300	Carth Man	6-25-25	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: 6/25/2025 9:21:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/25/25 08:00	Work Order ID: E506226
Phone: (972) 371-5200	Date Logged In: 06/24/25 14:36	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 07/01/25 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: Santa Fe Exploration TB

Work Order: E508334

Job Number: 23003-0002

Received: 9/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/8/25

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: 9/8/25

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



Project Name: Santa Fe Exploration TB
Workorder: E508334
Date Received: 9/2/2025 8:00:53AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/2/2025 8:00:53AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/08/25 09:07
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-8'	E508334-01A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-10'	E508334-02A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-15'	E508334-03A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-18'	E508334-04A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-20'	E508334-05A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-8'
E508334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	0.181	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	3.69	0.0250	1	09/02/25	09/03/25	
Toluene	4.32	0.0250	1	09/02/25	09/03/25	
o-Xylene	1.86	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	4.25	0.0500	1	09/02/25	09/03/25	
Total Xylenes	6.11	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	61.2	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	269	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	86.1	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>						
		99.9 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	ND	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-10'

E508334-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	0.228	0.0250	1	09/02/25	09/03/25	
Toluene	0.103	0.0250	1	09/02/25	09/03/25	
o-Xylene	0.157	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	0.376	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.6 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	36.3	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	ND	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-15'

E508334-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	65.1	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	154	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-18'

E508334-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		84.2 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	117	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	72.6	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>						
		99.2 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	420	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-20'

E508334-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	250	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	141	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		99.7 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	390	20.0	1	09/02/25	09/02/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536005-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

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 (2536005-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Benzene	4.50	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.5	70-130			
Toluene	4.48	0.0250	5.00		89.6	70-130			
o-Xylene	4.47	0.0250	5.00		89.4	70-130			
p,m-Xylene	8.87	0.0500	10.0		88.7	70-130			
Total Xylenes	13.3	0.0250	15.0		88.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.76		8.00		84.4	70-130			

Matrix Spike (2536005-MS1)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Benzene	5.25	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.16	0.0250	5.00	ND	103	70-130			
Toluene	5.25	0.0250	5.00	ND	105	70-130			
o-Xylene	5.12	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.76		8.00		84.5	70-130			

Matrix Spike Dup (2536005-MSD1)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Benzene	5.23	0.0250	5.00	ND	105	70-130	0.341	27	
Ethylbenzene	5.14	0.0250	5.00	ND	103	70-130	0.230	26	
Toluene	5.23	0.0250	5.00	ND	105	70-130	0.369	20	
o-Xylene	5.10	0.0250	5.00	ND	102	70-130	0.295	25	
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130	0.313	23	
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130	0.307	26	
Surrogate: 4-Bromochlorobenzene-PID	6.82		8.00		85.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536005-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

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

LCS (2536005-BS2)

Prepared: 09/02/25 Analyzed: 09/02/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2536005-MS2)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

Matrix Spike Dup (2536005-MSD2)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	6.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536001-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.1		50.0		98.1	61-141			

LCS (2536001-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	266	25.0	250		107	66-144			
Surrogate: <i>n</i> -Nonane	48.1		50.0		96.2	61-141			

Matrix Spike (2536001-MS1)

Source: E508336-01

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: <i>n</i> -Nonane	48.7		50.0		97.3	61-141			

Matrix Spike Dup (2536001-MSD1)

Source: E508336-01

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	56-156	16.0	20	
Surrogate: <i>n</i> -Nonane	58.4		50.0		117	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536009-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride ND 20.0

LCS (2536009-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 257 20.0 250 103 90-110

Matrix Spike (2536009-MS1)

Source: E508337-01

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 371 20.0 250 125 98.3 80-120

Matrix Spike Dup (2536009-MSD1)

Source: E508337-01

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 377 20.0 250 125 101 80-120 1.62 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/08/25 09:07
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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 Client: Matador Project Name: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Invoice Information Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab Use Only Lab WO# E508334 Job Number 23003.0002				TAT 1D 2D 3D Std X				State NM CO UT TX X			
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 BGDQC - NM BGDQC - TX												SDWA CWA RCRA							
Compliance Y or N												PWSID #							
Sample Information												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	BGDQC - NM	BGDQC - TX	Sample Temp	Remarks		
1014	08/28/25	S	1	BH05-8'		1								X		5.4			
1015		S	1	BH05-10'		2								X		5.3			
1020		S	1	BH05-15'		3								X		4.9			
1021		S	1	BH05-18'		4								X		4.9			
1021		S	1	BH05-20'		5								X		4.8			
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Higinio Gonzalez, Eric Plugge																			
Relinquished by: (Signature) <i>A.M. Musso</i>				Date 08/29/25		Time 7:11		Received by: (Signature) <i>Marissa Gonzalez</i>				Date 8-29-25		Time 07:11		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) <i>Marissa Gonzalez</i>				Date 8-29-25		Time 1230		Received by: (Signature) <i>Andrew Musso</i>				Date 8.30.25		Time 1230					
Relinquished by: (Signature) <i>Andrew Musso</i>				Date 8.30.25		Time 1915		Received by: (Signature) <i>Caitlynn</i>				Date 9-7-25		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.																			

Envirotech Analytical Laboratory

Printed: 9/2/2025 9:28:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 09/02/25 08:00	Work Order ID: E508334
Phone: (972) 371-5200	Date Logged In: 08/29/25 14:21	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 09/08/25 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: Santa Fe Exploration TB

Work Order: E510189

Job Number: 23003-0002

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

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: 10/24/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510189
Date Received: 10/20/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS11-0'	E510189-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS12-0'	E510189-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS13-0'	E510189-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS11-0'

E510189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2543007	
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2543007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2543003	
Diesel Range Organics (C10-C28)	33.8	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	77.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		86.3 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2543005	
Chloride	1120	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS12-0'

E510189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	31.9	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	76.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		85.7 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	849	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS13-0'

E510189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		87.5 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	325	20.0	1	10/20/25	10/20/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

LCS (2543007-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	3.96	0.0250	5.00		79.1	70-130			
Ethylbenzene	3.98	0.0250	5.00		79.5	70-130			
Toluene	3.94	0.0250	5.00		78.8	70-130			
o-Xylene	4.03	0.0250	5.00		80.6	70-130			
p,m-Xylene	8.08	0.0500	10.0		80.8	70-130			
Total Xylenes	12.1	0.0250	15.0		80.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

Matrix Spike (2543007-MS1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.76	0.0250	5.00	ND	95.2	70-130			
Ethylbenzene	4.87	0.0250	5.00	0.0404	96.6	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	5.02	0.0250	5.00	0.0417	99.6	70-130			
p,m-Xylene	9.91	0.0500	10.0	0.0985	98.1	70-130			
Total Xylenes	14.9	0.0250	15.0	0.140	98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.46		8.00		118	70-130			

Matrix Spike Dup (2543007-MSD1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.87	0.0250	5.00	ND	97.4	70-130	2.23	27	
Ethylbenzene	4.96	0.0250	5.00	0.0404	98.3	70-130	1.80	26	
Toluene	4.86	0.0250	5.00	ND	97.3	70-130	1.75	20	
o-Xylene	5.13	0.0250	5.00	0.0417	102	70-130	2.12	25	
p,m-Xylene	10.1	0.0500	10.0	0.0985	99.8	70-130	1.67	23	
Total Xylenes	15.2	0.0250	15.0	0.140	100	70-130	1.82	26	
Surrogate: 4-Bromochlorobenzene-PID	9.55		8.00		119	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

LCS (2543007-BS2)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike (2543007-MS2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2543007-MSD2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	67.3	20.0	50.0	ND	135	70-130	26.3	20	M6, R3
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543003-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.9	61-141			

LCS (2543003-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.0	66-144			
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.7	61-141			

Matrix Spike (2543003-MS1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2550	25.0	250	2130	169	56-156			M4
Surrogate: <i>n</i> -Nonane	44.7		50.0		89.5	61-141			

Matrix Spike Dup (2543003-MSD1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2950	25.0	250	2130	328	56-156	14.5	20	M4
Surrogate: <i>n</i> -Nonane	44.5		50.0		88.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543005-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride ND 20.0

LCS (2543005-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2543005-MS1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 590 100 250 322 107 80-120

Matrix Spike Dup (2543005-MSD1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 588 100 250 322 106 80-120 0.346 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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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.
- 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.
- 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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510189		23003-0002						X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
920	10/16/2025	S	1	SS11 - 0'		1								X						
922	10/16/2025	S	1	SS12 - 0'		2								X						
924	10/16/2025	S	1	SS13 - 0'		3								X						

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmcauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley

Relinquished by: (Signature) <i>Jarad McCauley</i>	Date	Time	Received by: (Signature) <i>Michelle Gonzales</i>	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) <i>Michelle Gonzales</i>	10-17-25	0711	Received by: (Signature) <i>Michelle Gonzales</i>	10-17-25	0701	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	10-17-25	1500	Received by: (Signature) <i>Marissa Gonzales</i>	10-17-25	1500	
Relinquished by: (Signature) <i>Andrew Musso</i>	10-17-25	1915	Received by: (Signature) <i>Andrew Musso</i>	10-17-25	1915	
Relinquished by: (Signature) <i>Andrew Musso</i>	10-17-25	2315	Received by: (Signature) <i>Noe Esp</i>	10-20-25	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.

Envirotech Analytical Laboratory

Printed: 10/20/2025 8:46:51AM

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: 10/20/25 06:30	Work Order ID: E510189
Phone: (972) 371-5200	Date Logged In: 10/17/25 16:13	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 10/24/25 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

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: Santa Fe Exploration TB

Work Order: E509334

Job Number: 23003-0002

Received: 10/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/25

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: 10/7/25



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

Project Name: Santa Fe Exploration TB
Workorder: E509334
Date Received: 10/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 09:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-4'	E509334-01A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS02-4'	E509334-02A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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FS01-4'

E509334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540063	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2540058	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540075	
Chloride	932	20.0	1	10/01/25	10/01/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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FS02-4'

E509334-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540063
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540063
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540075
Chloride	550	20.0	1	10/01/25	10/01/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540063-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

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	8.32		8.00		104	70-130			

LCS (2540063-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

Matrix Spike (2540063-MS1)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	5.28	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130			
Toluene	5.26	0.0250	5.00	ND	105	70-130			
o-Xylene	5.22	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike Dup (2540063-MSD1)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	4.84	0.0250	5.00	ND	96.8	70-130	8.69	27	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	70-130	8.46	26	
Toluene	4.84	0.0250	5.00	ND	96.7	70-130	8.40	20	
o-Xylene	4.80	0.0250	5.00	ND	96.1	70-130	8.24	25	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	70-130	8.27	23	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	70-130	8.26	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540063-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.8	70-130			

LCS (2540063-BS2)

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			

Matrix Spike (2540063-MS2)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

Matrix Spike Dup (2540063-MSD2)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.7	70-130	4.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540058-BLK1)

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	61-141			

LCS (2540058-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

Matrix Spike (2540058-MS1)

Source: E509338-05

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike Dup (2540058-MSD1)

Source: E509338-05

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156	1.71	20	
Surrogate: n-Nonane	51.0		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540075-BLK1)

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride ND 20.0

LCS (2540075-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 253 20.0 250 101 90-110

Matrix Spike (2540075-MS1)

Source: E509333-06

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 4200 40.0 250 3870 132 80-120 M4

Matrix Spike Dup (2540075-MSD1)

Source: E509333-06

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 4070 40.0 250 3870 79.4 80-120 3.19 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 09:45
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E509334		23003-0002					X	X																																																							
Project Manager: Ashley Giovengo				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/ORO 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>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td colspan="8"></td> <td>Compliance</td> <td colspan="4"></td> </tr> <tr> <td colspan="8"></td> <td>PWSID #</td> <td colspan="4"></td> </tr> </thead> </table>								Analysis and Method								EPA Program				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				Y	or	N									Compliance													PWSID #				
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Address: 3122 National Parks Hwy				Phone: 575-988-0055																																																																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																																																																			
Phone: 575-988-0055				Miscellaneous:																																																																			
Email: agiovengo@ensolum.com																																																																							
Sample Information																																																																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Sample Temp	Remarks																																																						
8:36	9/26/2025	Soil	1	FS01 - 4'		1								X		1.2																																																							
8:39	9/26/2025	Soil	1	FS02 - 4'		2								X		2.0																																																							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																																																																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																																																																							
Sampled by: 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: <input checked="" type="radio"/> Y <input type="radio"/> N																																																																	
<i>Israel Estrella</i>	9/29/25	7:11	<i>Michelle Gonzales</i>	9-30-25	0700																																																																		
<i>Michelle Gonzales</i>	9-30-25	1500	<i>Matthew J. ...</i>	9-30-25	1500																																																																		
<i>Matthew J. ...</i>	9-30-25	1940	<i>Andrew Musso</i>	9-30-25	1940																																																																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																																																		
<i>Andrew Musso</i>	10-1-25	0115	<i>Caitlin ...</i>	10-1-25	730																																																																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																																																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																																																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																																							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																																							

Envirotech Analytical Laboratory

Printed: 10/1/2025 9:49:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/01/25 07:30 Work Order ID: E509334
Phone: (972) 371-5200 Date Logged In: 09/30/25 15:58 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 10/07/25 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.

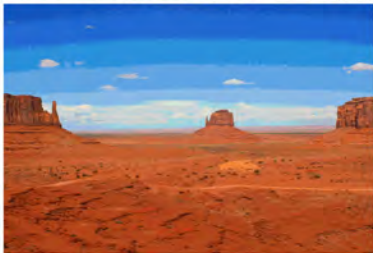
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E510015

Job Number: 23003-0002

Received: 10/2/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/8/25

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: 10/8/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510015
Date Received: 10/2/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/2/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Santa Fe Exploration TB

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/08/25 13:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03-1'	E510015-01A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS04-1'	E510015-02A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS05-2'	E510015-03A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS06-2'	E510015-04A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS07-2'	E510015-05A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS08-0.5'	E510015-06A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS09-4'	E510015-07A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS10-4'	E510015-08A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS11-4'	E510015-09A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS12-4'	E510015-10A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS13-4'	E510015-11A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW01-0-4'	E510015-12A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW02-0-4'	E510015-13A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW03-0-4'	E510015-14A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW04-0-4'	E510015-15A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW05-0-1'	E510015-16A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW06-0-1'	E510015-17A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW07-0-2'	E510015-18A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW08-0-2'	E510015-19A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW09-0-4'	E510015-20A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW10-0-4'	E510015-21A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW11-0-4'	E510015-22A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW12-0-4'	E510015-23A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS03-1'

E510015-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Benzene	0.0287	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0413	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540095	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.2 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2540122	
Chloride	183	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS04-1'

E510015-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0274	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0443	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.8 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	64.1	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS05-2'

E510015-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0347	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0544	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	592	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS06-2'

E510015-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0335	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.4 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		93.0 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	288	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS07-2'

E510015-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0252	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.0 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		97.1 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	107	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS08-0.5'

E510015-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0460	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		112 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	31.6	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		96.6 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	2180	40.0	2	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS09-4'

E510015-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540107
Benzene	0.938	0.500	20	10/02/25	10/04/25	
Ethylbenzene	16.4	0.500	20	10/02/25	10/04/25	
Toluene	17.4	0.500	20	10/02/25	10/04/25	
o-Xylene	8.40	0.500	20	10/02/25	10/04/25	
p,m-Xylene	19.3	1.00	20	10/02/25	10/04/25	
Total Xylenes	27.7	0.500	20	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	400	20	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	7210	250	10	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	2550	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		197 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2540122
Chloride	24.8	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS10-4'

E510015-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	3.45	0.125	5	10/02/25	10/04/25	
Ethylbenzene	29.5	0.125	5	10/02/25	10/04/25	
Toluene	36.7	0.125	5	10/02/25	10/04/25	
o-Xylene	14.9	0.125	5	10/02/25	10/04/25	
p,m-Xylene	34.2	0.250	5	10/02/25	10/04/25	
Total Xylenes	49.1	0.125	5	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	624	100	5	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	9510	250	10	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3130	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		213 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	20.8	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS11-4'

E510015-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.110	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	0.375	0.0250	1	10/02/25	10/04/25	
Toluene	0.487	0.0250	1	10/02/25	10/04/25	
o-Xylene	0.246	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	0.610	0.0500	1	10/02/25	10/04/25	
Total Xylenes	0.856	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	3660	125	5	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1690	250	5	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		90.4 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	1300	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS12-4'

E510015-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0844	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	3.32	0.0250	1	10/02/25	10/04/25	
Toluene	1.77	0.0250	1	10/02/25	10/04/25	
o-Xylene	2.06	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	4.83	0.0500	1	10/02/25	10/04/25	
Total Xylenes	6.89	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	118	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		123 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	2280	250	10	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	863	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	344	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS13-4'

E510015-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	11.1	0.500	20	10/02/25	10/04/25	
Ethylbenzene	48.9	0.500	20	10/02/25	10/04/25	
Toluene	78.7	0.500	20	10/02/25	10/04/25	
o-Xylene	24.3	0.500	20	10/02/25	10/04/25	
p,m-Xylene	61.7	1.00	20	10/02/25	10/04/25	
Total Xylenes	85.9	0.500	20	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	1290	400	20	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	9730	500	20	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3660	1000	20	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		288 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	685	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW01-0-4'

E510015-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0312	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		93.5 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	328	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW02-0-4'

E510015-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.8 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		94.1 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	156	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW03-0-4'

E510015-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		97.6 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	35.2	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW04-0-4'

E510015-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.3 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		95.0 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	81.3	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW05-0-1'

E510015-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0529	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		91.7 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	115	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW06-0-1'

E510015-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0393	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.1 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	117	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW07-0-2'

E510015-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0303	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	46.1	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW08-0-2'

E510015-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0324	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		94.8 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	85.0	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW09-0-4'

E510015-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.853	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	14.2	0.0250	1	10/02/25	10/04/25	
Toluene	16.8	0.0250	1	10/02/25	10/04/25	
o-Xylene	8.43	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	18.6	0.0500	1	10/02/25	10/04/25	
Total Xylenes	27.0	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.3 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	369	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		135 %	70-130	10/02/25	10/04/25	S5
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	8780	250	10	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3130	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		173 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	28.8	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW10-0-4'

E510015-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.152	0.0250	1	10/02/25	10/02/25	
Ethylbenzene	4.42	0.0250	1	10/02/25	10/02/25	
Toluene	3.83	0.0250	1	10/02/25	10/02/25	
o-Xylene	7.17	0.0250	1	10/02/25	10/02/25	
p,m-Xylene	12.6	0.0500	1	10/02/25	10/02/25	
Total Xylenes	19.8	0.0250	1	10/02/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/02/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	301	20.0	1	10/02/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		130 %	70-130	10/02/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	8340	25.0	1	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	2660	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		193 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	47.3	20.0	1	10/02/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW11-0-4'

E510015-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.0278	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	0.287	0.0250	1	10/02/25	10/03/25	
Toluene	0.233	0.0250	1	10/02/25	10/03/25	
o-Xylene	0.338	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	0.627	0.0500	1	10/02/25	10/03/25	
Total Xylenes	0.965	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	23.7	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	1960	50.0	2	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1170	100	2	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		91.1 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	989	20.0	1	10/02/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW12-0-4'

E510015-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.115	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	4.54	0.0250	1	10/02/25	10/03/25	
Toluene	3.73	0.0250	1	10/02/25	10/03/25	
o-Xylene	2.76	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	6.36	0.0500	1	10/02/25	10/03/25	
Total Xylenes	9.11	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.9 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	153	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		117 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	2590	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1280	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	531	20.0	1	10/02/25	10/03/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540094-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

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	7.33		8.00		91.6	70-130			

LCS (2540094-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	3.75	0.0250	5.00		75.0	70-130			
Ethylbenzene	3.63	0.0250	5.00		72.6	70-130			
Toluene	3.69	0.0250	5.00		73.8	70-130			
o-Xylene	3.70	0.0250	5.00		74.1	70-130			
p,m-Xylene	7.40	0.0500	10.0		74.0	70-130			
Total Xylenes	11.1	0.0250	15.0		74.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			

Matrix Spike (2540094-MS1)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	4.29	0.0250	5.00	ND	85.8	70-130			
Ethylbenzene	4.15	0.0250	5.00	ND	83.0	70-130			
Toluene	4.22	0.0250	5.00	ND	84.5	70-130			
o-Xylene	4.23	0.0250	5.00	ND	84.6	70-130			
p,m-Xylene	8.42	0.0500	10.0	ND	84.2	70-130			
Total Xylenes	12.6	0.0250	15.0	ND	84.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

Matrix Spike Dup (2540094-MSD1)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	4.80	0.0250	5.00	ND	96.0	70-130	11.3	27	
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	70-130	12.1	26	
Toluene	4.75	0.0250	5.00	ND	95.0	70-130	11.8	20	
o-Xylene	4.72	0.0250	5.00	ND	94.4	70-130	11.0	25	
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	70-130	11.8	23	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	70-130	11.5	26	
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540107-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

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	7.27		8.00		90.9	70-130			

LCS (2540107-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.26	0.0250	5.00		85.2	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.34	0.0250	5.00		86.7	70-130			
o-Xylene	4.37	0.0250	5.00		87.4	70-130			
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130			
Total Xylenes	13.2	0.0250	15.0		88.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			

Matrix Spike (2540107-MS1)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.43	0.0250	5.00	ND	88.5	70-130			
Ethylbenzene	4.49	0.0250	5.00	ND	89.9	70-130			
Toluene	4.51	0.0250	5.00	0.0335	89.5	70-130			
o-Xylene	4.51	0.0250	5.00	ND	90.1	70-130			
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	70-130			
Total Xylenes	13.6	0.0250	15.0	ND	90.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike Dup (2540107-MSD1)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.17	0.0250	5.00	ND	83.4	70-130	6.00	27	
Ethylbenzene	4.25	0.0250	5.00	ND	84.9	70-130	5.69	26	
Toluene	4.25	0.0250	5.00	0.0335	84.4	70-130	5.85	20	
o-Xylene	4.27	0.0250	5.00	ND	85.4	70-130	5.34	25	
p,m-Xylene	8.63	0.0500	10.0	ND	86.3	70-130	5.59	23	
Total Xylenes	12.9	0.0250	15.0	ND	86.0	70-130	5.51	26	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540094-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

LCS (2540094-BS2)

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike (2540094-MS2)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike Dup (2540094-MSD2)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540107-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

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

LCS (2540107-BS2)

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike (2540107-MS2)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.80		8.00		110	70-130			

Matrix Spike Dup (2540107-MSD2)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.90		8.00		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540095-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.0		50.0		94.1	61-141			

LCS (2540095-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	236	25.0	250		94.5	66-144			
Surrogate: <i>n</i> -Nonane	45.5		50.0		91.0	61-141			

Matrix Spike (2540095-MS1)

Source: E510015-16

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	56-156			
Surrogate: <i>n</i> -Nonane	47.8		50.0		95.6	61-141			

Matrix Spike Dup (2540095-MSD1)

Source: E510015-16

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156	0.986	20	
Surrogate: <i>n</i> -Nonane	47.5		50.0		95.0	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540096-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.7	61-141			

LCS (2540096-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	250	25.0	250		100	66-144			
Surrogate: <i>n</i> -Nonane	48.0		50.0		96.0	61-141			

Matrix Spike (2540096-MS1)

Source: E510014-27

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	56-156			
Surrogate: <i>n</i> -Nonane	56.2		50.0		112	61-141			

Matrix Spike Dup (2540096-MSD1)

Source: E510014-27

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156	2.40	20	
Surrogate: <i>n</i> -Nonane	57.0		50.0		114	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540098-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Chloride ND 20.0

LCS (2540098-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2540098-MS1)

Source: E510007-01

Prepared: 10/02/25 Analyzed: 10/03/25

Chloride 591 20.0 250 389 80.6 80-120

Matrix Spike Dup (2540098-MSD1)

Source: E510007-01

Prepared: 10/02/25 Analyzed: 10/03/25

Chloride 593 20.0 250 389 81.4 80-120 0.321 20



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540122-BLK1)

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

Chloride ND 20.0

LCS (2540122-BS1)

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

Chloride 264 20.0 250 105 90-110

Matrix Spike (2540122-MS1)

Source: E510015-03

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

Chloride 841 20.0 250 592 99.4 80-120

Matrix Spike Dup (2540122-MSD1)

Source: E510015-03

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

Chloride 854 20.0 250 592 105 80-120 1.52 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/08/25 13:40
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S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510015		68003002					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	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	Compliance	Y	or	N	
7:30	9/30/2025	Soil	1	FS03 - 1'		1								X									
7:33	9/30/2025	Soil	1	FS04 - 1'		2								X									
7:38	9/30/2025	Soil	1	FS05 - 2'		3								X									
7:40	9/30/2025	Soil	1	FS06 - 2'		4								X									
7:45	9/30/2025	Soil	1	FS07 - 2'		5								X									
9:46	9/30/2025	Soil	1	FS08 - 0.5'		6								X									
11:50	9/30/2025	Soil	1	FS09 - 4'		7								X									
11:54	9/30/2025	Soil	1	FS 10 - 4'		8								X									
11:58	9/30/2025	Soil	1	FS11 - 4'		9								X									
11:59	9/30/2025	Soil	1	FS 12 - 4'		10								X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: 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: <input checked="" type="radio"/> Y <input type="radio"/> N											
<i>Israel Estrella</i>		10/1/25		7:11		<i>Michelle Gonzales</i>		10-1-25		0711													
<i>Michelle Gonzales</i>		10-1-25		1445		<i>Marissa Gonzales</i>		10-1-25		1445													
<i>Marissa Gonzales</i>		10-1-25		1900		<i>Andrew Musso</i>		10-1-25		1900													
<i>Andrew Musso</i>		10-1-25		2345		<i>Carly Han</i>		10-2-25		800													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510015		623003-0002						x							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: 575-988-0055																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																			
Phone: 575-988-0055				Miscellaneous:																			
Email: agiovengo@ensolum.com																							
Sample Information										Analysis and Method						EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	Compliance	Y	or	N	
12:00	9/30/2025	Soil	1	FS13 - 4'		11								X									
8:18	9/30/2025	Soil	1	SW01 - 0-4'		12								X									
8:20	9/30/2025	Soil	1	SW02 - 0-4'		13								X									
8:23	9/30/2025	Soil	1	SW03 - 0-4'		14								X									
8:26	9/30/2025	Soil	1	SW04 - 0-4'		15								X									
8:31	9/30/2025	Soil	1	SW05 - 0-1'		16								X									
8:34	9/30/2025	Soil	1	SW06 - 0-1'		17								X									
8:37	9/30/2025	Soil	1	SW07 - 0-2'		18								X									
8:40	9/30/2025	Soil	1	SW08 - 0-2'		19								X									
11:56	9/30/2025	Soil	1	SW09 - 0-4'		20								X									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>Israel Estrella</u>																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
		10/1/25		7:11		Michelle Gonzales		10-1-25		0711													
Michelle Gonzales		10-1-25		1445		Marissas Gonzales		10-1-25		1445													
Marissas Gonzales		10-1-25		1900		Andrew Musso		10-1-25		1900													
Andrew Musso		10-1-25		2345		Carter Mann		10-2-25		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.																							

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510015		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	
11:57	9/30/2025	Soil	1	SW10 - 0-4'		21								X					
12:02	9/30/2025	Soil	1	SW11 - 0-4'		22								X					
12:04	9/30/2025	Soil	1	SW12 - 0-4'		23								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													
<i>Israel Estrella</i>	10/1/25	7:11	<i>Michelle Gonzales</i>	10-1-25	0711														
<i>Michelle Gonzales</i>	10-1-25	1445	<i>Marissa Gonzales</i>	10-1-25	1445														
<i>Marissa Gonzales</i>	10-1-25	1900	<i>Andrew Musso</i>	10-1-25	1900														
<i>Andrew Musso</i>	10-1-25	2345	<i>Israel Estrella</i>	10-2-25	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: 10/2/2025 10:22:39AM

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: 10/02/25 08:00	Work Order ID: E510015
Phone: (972) 371-5200	Date Logged In: 10/01/25 16:30	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 10/08/25 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: Santa Fe Exploration TB

Work Order: E511354

Job Number: 23003-0002

Received: 11/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/2/25

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: 12/2/25



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

Project Name: Santa Fe Exploration TB
Workorder: E511354
Date Received: 11/25/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/25/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/02/25 16:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS12A-0'	E511354-01A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
SS12B-0'	E511354-02A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
SS12C-0'	E511354-03A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS14-0'	E511354-04A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS15-0'	E511354-05A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS16-0'	E511354-06A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS17-0'	E511354-07A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS18-0'	E511354-08A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12A-0'

E511354-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2548034	
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2548034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2548030	
Diesel Range Organics (C10-C28)	39.3	25.0	1	11/25/25	12/01/25	
Oil Range Organics (C28-C36)	122	50.0	1	11/25/25	12/01/25	
<i>Surrogate: n-Nonane</i>		87.4 %	61-141	11/25/25	12/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2548041	
Chloride	132	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12B-0'

E511354-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		96.7 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	5460	100	5	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12C-0'

E511354-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		94.3 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	6490	200	10	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS14-0'

E511354-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		97.0 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	855	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS15-0'

E511354-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		93.6 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	35.1	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS16-0'

E511354-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		96.2 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	56.8	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS17-0'

E511354-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>						
		91.6 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	ND	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS18-0'

E511354-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>						
		94.2 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	ND	20.0	1	11/25/25	11/25/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548034-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

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	9.29		8.00		116	70-130			

LCS (2548034-BS1)

Prepared: 11/25/25 Analyzed: 12/01/25

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130			
Toluene	4.79	0.0250	5.00		95.7	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.67	0.0500	10.0		96.7	70-130			
Total Xylenes	14.5	0.0250	15.0		96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			

Matrix Spike (2548034-MS1)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Benzene	5.78	0.0250	5.00	ND	116	70-130			
Ethylbenzene	5.51	0.0250	5.00	ND	110	70-130			
Toluene	5.64	0.0250	5.00	ND	113	70-130			
o-Xylene	5.70	0.0250	5.00	ND	114	70-130			
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130			
Total Xylenes	16.9	0.0250	15.0	ND	113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.27		8.00		116	70-130			

Matrix Spike Dup (2548034-MSD1)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Benzene	5.05	0.0250	5.00	ND	101	70-130	13.4	27	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	70-130	12.1	26	
Toluene	4.96	0.0250	5.00	ND	99.3	70-130	12.8	20	
o-Xylene	5.02	0.0250	5.00	ND	100	70-130	12.7	25	
p,m-Xylene	9.99	0.0500	10.0	ND	99.8	70-130	11.7	23	
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130	12.0	26	
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548034-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

LCS (2548034-BS2)

Prepared: 11/25/25 Analyzed: 11/26/25

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2548034-MS2)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

Matrix Spike Dup (2548034-MSD2)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	16.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548030-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

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 (2548030-BS1)

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	244	25.0	250		97.8	66-144			
Surrogate: <i>n</i> -Nonane	46.7		50.0		93.4	61-141			

Matrix Spike (2548030-MS1)

Source: E511357-02

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			

Matrix Spike Dup (2548030-MSD1)

Source: E511357-02

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	0.692	20	
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.7	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548041-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride ND 20.0

LCS (2548041-BS1)

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2548041-MS1)

Source: E511356-09

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 428 20.0 250 182 98.6 80-120

Matrix Spike Dup (2548041-MSD1)

Source: E511356-09

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 437 20.0 250 182 102 80-120 2.07 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/02/25 16:52
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E511354		23008-0007					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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BEDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
805	11/24/2025	S	1	SS12A - 0'		1								X		2.6			
807	11/24/2025	S	1	SS12B - 0'		2								X		1.3			
809	11/24/2025	S	1	SS12C - 0'		3								X		1.3			
811	11/24/2025	S	1	FS14 - 0'		4								X		1.8			
813	11/24/2025	S	1	FS15 - 0'		5								X		1.3			
815	11/24/2025	S	1	FS16 - 0'		6								X		1.6			
817	11/24/2025	S	1	FS17 - 0'		7								X		1.8			
819	11/24/2025	S	1	FS18 - 0'		8								X		2.1			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.													
<i>Jarad McCauley</i>	11-24-25	711	<i>Michelle Gonzales</i>	11-24-25	0711														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only													
<i>Michelle Gonzales</i>	11-24-25	1245	<i>Marissa Gonzales</i>	11-24-25	1245														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice:													
<i>Marissa Gonzales</i>	11-24-25	1710	<i>Carth M...</i>	11-24-25	1710														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<input checked="" type="radio"/> Y <input type="radio"/> N													
<i>Carth M...</i>	11-24-25	2100	<i>Carth M...</i>	11-25-25	730														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 11/25/2025 9:41:38AM

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: 11/25/25 07:30	Work Order ID: E511354
Phone: (972) 371-5200	Date Logged In: 11/24/25 15:07	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 12/03/25 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: Santa Fe Exploration TB

Work Order: E602279

Job Number: 23003-0002

Received: 2/24/2026

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/26

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: 3/2/26



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

Project Name: Santa Fe Exploration TB
Workorder: E602279
Date Received: 2/24/2026 11:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/24/2026 11:00:00PM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS19-8'	E602279-01A	Soil	02/23/26	02/24/26	Glass Jar, 2 oz.
FS20-8'	E602279-02A	Soil	02/23/26	02/24/26	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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FS19-8'

E602279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609065
Benzene	ND	0.0250	1	02/25/26	02/25/26	
Ethylbenzene	ND	0.0250	1	02/25/26	02/25/26	
Toluene	ND	0.0250	1	02/25/26	02/25/26	
o-Xylene	ND	0.0250	1	02/25/26	02/25/26	
p,m-Xylene	ND	0.0500	1	02/25/26	02/25/26	
Total Xylenes	ND	0.0250	1	02/25/26	02/25/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.5 %	70-130	02/25/26	02/25/26	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609065
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/25/26	02/25/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	02/25/26	02/25/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2609084
Diesel Range Organics (C10-C28)	ND	25.0	1	02/25/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/25/26	02/26/26	
<i>Surrogate: n-Nonane</i>						
		96.9 %	61-141	02/25/26	02/26/26	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2609081
Chloride	31.1	20.0	1	02/24/26	02/25/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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FS20-8'

E602279-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609065
Benzene	ND	0.0250	1	02/25/26	02/25/26	
Ethylbenzene	ND	0.0250	1	02/25/26	02/25/26	
Toluene	ND	0.0250	1	02/25/26	02/25/26	
o-Xylene	ND	0.0250	1	02/25/26	02/25/26	
p,m-Xylene	ND	0.0500	1	02/25/26	02/25/26	
Total Xylenes	ND	0.0250	1	02/25/26	02/25/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.5 %	70-130	02/25/26	02/25/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609065
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/25/26	02/25/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	02/25/26	02/25/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2609084
Diesel Range Organics (C10-C28)	ND	25.0	1	02/25/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/25/26	02/26/26	
<i>Surrogate: n-Nonane</i>		92.5 %	61-141	02/25/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2609081
Chloride	85.2	20.0	1	02/24/26	02/25/26	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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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 (2609065-BLK1)

Prepared: 02/24/26 Analyzed: 02/24/26

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	8.20		8.00		102	70-130			

LCS (2609065-BS1)

Prepared: 02/24/26 Analyzed: 02/24/26

Benzene	5.71	0.0250	5.00		114	70-130			
Ethylbenzene	5.46	0.0250	5.00		109	70-130			
Toluene	5.61	0.0250	5.00		112	70-130			
o-Xylene	5.53	0.0250	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

LCS Dup (2609065-BSD1)

Prepared: 02/24/26 Analyzed: 02/25/26

Benzene	5.98	0.0250	5.00		120	70-130	4.69	20	
Ethylbenzene	5.71	0.0250	5.00		114	70-130	4.62	20	
Toluene	5.87	0.0250	5.00		117	70-130	4.58	20	
o-Xylene	5.75	0.0250	5.00		115	70-130	3.94	20	
p,m-Xylene	11.6	0.0500	10.0		116	70-130	4.58	20	
Total Xylenes	17.4	0.0250	15.0		116	70-130	4.36	20	
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		103	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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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 (2609065-BLK1)

Prepared: 02/24/26 Analyzed: 02/24/26

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

LCS (2609065-BS2)

Prepared: 02/24/26 Analyzed: 02/25/26

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.1	70-130			

LCS Dup (2609065-BSD2)

Prepared: 02/24/26 Analyzed: 02/25/26

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0		109	70-130	3.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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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 (2609084-BLK1)

Prepared: 02/25/26 Analyzed: 02/25/26

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.1		50.0		110	61-141			

LCS (2609084-BS1)

Prepared: 02/25/26 Analyzed: 02/25/26

Diesel Range Organics (C10-C28)	236	25.0	250		94.4	66-144			
Surrogate: <i>n</i> -Nonane	45.3		50.0		90.5	61-141			

Matrix Spike (2609084-MS1)

Source: E602274-05

Prepared: 02/25/26 Analyzed: 02/25/26

Diesel Range Organics (C10-C28)	242	25.0	250	ND	97.0	56-156			
Surrogate: <i>n</i> -Nonane	45.1		50.0		90.2	61-141			

Matrix Spike Dup (2609084-MSD1)

Source: E602274-05

Prepared: 02/25/26 Analyzed: 02/25/26

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	56-156	3.11	20	
Surrogate: <i>n</i> -Nonane	46.2		50.0		92.5	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:13:50PM
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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 (2609081-BLK1)

Prepared: 02/24/26 Analyzed: 02/25/26

Chloride	ND	20.0							
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LCS (2609081-BS1)

Prepared: 02/24/26 Analyzed: 02/25/26

Chloride	259	20.0	250		104	90-110			
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LCS Dup (2609081-BSD1)

Prepared: 02/24/26 Analyzed: 02/25/26

Chloride	258	20.0	250		103	90-110	0.326	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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:13
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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

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E602279		23008-0002						X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information										Analysis and Method				EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1541	2/23/2026	S	1	FS01 - 8'			1								X					
1537	2/23/2026	S	1	FS02 - 8'			2								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmcauley@ensolum.com, akone@ensolum.com, jgongalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N												
<i>Jarad McCauley</i>		2/24/2026	7:11	<i>Michelle Gonzales</i>		2-24-26	0711													
<i>Michelle Gonzales</i>		2-24-26	1500	<i>Marissa Gonzales</i>		2-24-26	1500													
<i>Marissa Gonzales</i>		2-24-26	1930	<i>Johnny Archuleta</i>		2-24-26	1930													
<i>Johnny Archuleta</i>		2-24-26	2300	<i>Caitlin Mann</i>		2-24-26	2300													
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: 2/25/2026 9:37:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 02/24/26 23:00	Work Order ID: E602279
Phone: (972) 371-5200	Date Logged In: 02/24/26 15:33	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 02/26/26 17:00 (1 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

L-CM
R-SL

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX								
Project Name: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E602279		23002-0002					X	X											
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																							
Address: 3122 National Parks Hwy				Phone: 575-988-0055																							
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																							
Phone: 575-988-0055				Miscellaneous:																							
Email: agiovengo@ensolum.com				Sample Information																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	ERO/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	
1541	2/23/2026	S	1	FS19 - 5603 - 8' NS			1									X										1.4	Changed
1537	2/23/2026	S	1	FS20 - 5502 - 8' 3-2-26			2									X										1.2	Sample
																											names per C.H.
																											NS 3-2-26
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Llana Linehan																											
Relinquished by: (Signature) <i>JM</i>				Date: 2/24/2026		Time: 7:11		Received by: (Signature) <i>Michelle Gonzales</i>				Date: 2-24-26		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. Lab Use Only Received on ice: Y/N											
Relinquished by: (Signature) <i>Michelle Gonzales</i>				Date: 2-24-26		Time: 1500		Received by: (Signature) <i>Mariassa Gonzales</i>				Date: 2-24-26		Time: 1500													
Relinquished by: (Signature) <i>Mariassa Gonzales</i>				Date: 2-24-26		Time: 1930		Received by: (Signature) <i>Johnny Archuleta</i>				Date: 2-24-26		Time: 1930													
Relinquished by: (Signature) <i>Johnny Archuleta</i>				Date: 2-24-26		Time: 2300		Received by: (Signature) <i>Caillie Mann</i>				Date: 2-24-26		Time: 2300													
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.																											

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E602293

Job Number: 23003-0002

Received: 2/26/2026

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/26

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: 3/2/26



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

Project Name: Santa Fe Exploration TB
Workorder: E602293
Date Received: 2/26/2026 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2026 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:09
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW17-0-10'	E602293-01A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
SW18-0-10'	E602293-02A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
SW19-0-10'	E602293-03A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
SW20-0-10'	E602293-04A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
SW21-0-10'	E602293-05A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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SW17-0-10'

E602293-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.2 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	907	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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SW18-0-10'

E602293-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.3 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		99.8 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	1650	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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SW19-0-10'

E602293-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	117	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		99.2 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	798	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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SW20-0-10'

E602293-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.1 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		104 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	1030	40.0	2	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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SW21-0-10'

E602293-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.1 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	25.0	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		103 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	214	20.0	1	02/26/26	02/26/26	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

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	8.06		8.00		101	70-130			

LCS (2609105-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2609105-MS1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.04	0.0250	5.00	ND	101	70-130			
Ethylbenzene	4.99	0.0250	5.00	ND	99.9	70-130			
Toluene	5.07	0.0250	5.00	ND	101	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130			
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike Dup (2609105-MSD1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.50	0.0250	5.00	ND	110	70-130	8.64	27	
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130	8.89	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	8.80	20	
o-Xylene	5.47	0.0250	5.00	ND	109	70-130	8.50	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	8.61	23	
Total Xylenes	16.6	0.0250	15.0	ND	110	70-130	8.57	26	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2609105-BS2)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0		113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike (2609105-MS2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	60.2	20.0	50.0	ND	120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike Dup (2609105-MSD2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130	8.31	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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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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 (2609112-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.4		50.0		94.9	61-141			

LCS (2609112-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144			
Surrogate: <i>n</i> -Nonane	50.0		50.0		100	61-141			

Matrix Spike (2609112-MS1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	325	25.0	250	43.7	112	56-156			
Surrogate: <i>n</i> -Nonane	51.9		50.0		104	61-141			

Matrix Spike Dup (2609112-MSD1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	308	25.0	250	43.7	106	56-156	5.21	20	
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:09:12PM
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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 (2609108-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride ND 20.0

LCS (2609108-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride 258 20.0 250 103 90-110

Matrix Spike (2609108-MS1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride 1920 20.0 250 1810 42.9 80-120 M4

Matrix Spike Dup (2609108-MSD1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride 1860 20.0 250 1810 20.6 80-120 2.95 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:09
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				EL 202293		73003-0002			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	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
953	2/25/2026	S	1	SW05 - 0-10'		1								X		5.7			
956	2/25/2026	S	1	SW06 - 0-10'		2								X		5.9			
959	2/25/2026	S	1	SW07 - 0-10'		3								X		5.6			
1007	2/25/2026	S	1	SW08 - 0-10'		4								X		5.4			
1005	2/25/2026	S	1	SW09 - 0-10'		5								X		5.3			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																			
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.											
Michelle Gonzales		2-25-26	7:11	Michelle Gonzales		2-25-26	0711												
Michelle Gonzales		2-25-26	1415	Marissa Gonzales		2-25-26	1415												
Marissa Gonzales		2-25-26	1845	Johnny Archuleta		2-25-26	1845												
Johnny Archuleta		2-25-26	7:20	Cuth Man		2-26-26	800												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
								Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 2/26/2026 9:08:27AM

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: 02/26/26 08:00	Work Order ID: E602293
Phone: (972) 371-5200	Date Logged In: 02/25/26 14:41	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 02/27/26 17:00 (1 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-DT
R-NV

Client Instruction

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

Date



envirotech Inc.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E/202293		73003-0002						X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information										Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Chloride 300.0	TECO 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
953	2/25/2026	S	1	SW17 SW05 - 0-10' NS		1								X					
956	2/25/2026	S	1	SW18 SW06 - 0-10' 3-2-26		2								X					
959	2/25/2026	S	1	SW19 SW07 - 0-10'		3								X					
1007	2/25/2026	S	1	SW20 SW08 - 0-10'		4								X					
1005	2/25/2026	S	1	SW21 SW09 - 0-10'		5								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmcauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																			
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>Jarad McCauley</i>				2/25/2026		7:11		<i>Michelle Gonzales</i>				2-25-26		0711					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
<i>Michelle Gonzales</i>				2-25-26		1415		<i>Mariass Gonzales</i>				2-25-26		1415					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
<i>Mariass Gonzales</i>				2-25-26		1845		<i>Johnny Archuleta</i>				2-25-26		1845					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
<i>Johnny Archuleta</i>				2-25-26		2200		<i>Carla Man</i>				2-26-26		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.																			

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E602294

Job Number: 23003-0002

Received: 2/26/2026

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/26

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: 3/2/26



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

Project Name: Santa Fe Exploration TB
Workorder: E602294
Date Received: 2/26/2026 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2026 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:11
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW13-0-8'	E602294-01A	Soil	02/24/26	02/26/26	Glass Jar, 2 oz.
SW14-0-8'	E602294-02A	Soil	02/24/26	02/26/26	Glass Jar, 2 oz.
SW15-0-8'	E602294-03A	Soil	02/24/26	02/26/26	Glass Jar, 2 oz.
SW16-0-8'	E602294-04A	Soil	02/24/26	02/26/26	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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SW13-0-8'

E602294-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.5 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	33.1	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		97.9 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2609108
Chloride	45.7	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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SW14-0-8'

E602294-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		103 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	230	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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SW15-0-8'

E602294-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		100 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	39.3	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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SW16-0-8'

E602294-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	1810	20.0	1	02/26/26	02/27/26	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

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	8.06		8.00		101	70-130			

LCS (2609105-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2609105-MS1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.04	0.0250	5.00	ND	101	70-130			
Ethylbenzene	4.99	0.0250	5.00	ND	99.9	70-130			
Toluene	5.07	0.0250	5.00	ND	101	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130			
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike Dup (2609105-MSD1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.50	0.0250	5.00	ND	110	70-130	8.64	27	
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130	8.89	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	8.80	20	
o-Xylene	5.47	0.0250	5.00	ND	109	70-130	8.50	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	8.61	23	
Total Xylenes	16.6	0.0250	15.0	ND	110	70-130	8.57	26	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2609105-BS2)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0		113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike (2609105-MS2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	60.2	20.0	50.0	ND	120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike Dup (2609105-MSD2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130	8.31	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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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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 (2609112-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.4		50.0		94.9	61-141			

LCS (2609112-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144			
Surrogate: <i>n</i> -Nonane	50.0		50.0		100	61-141			

Matrix Spike (2609112-MS1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	325	25.0	250	43.7	112	56-156			
Surrogate: <i>n</i> -Nonane	51.9		50.0		104	61-141			

Matrix Spike Dup (2609112-MSD1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	308	25.0	250	43.7	106	56-156	5.21	20	
Surrogate: <i>n</i> -Nonane	50.3		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:11:26PM
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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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2609108-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride	ND	20.0							
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LCS (2609108-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride	258	20.0	250		103	90-110			
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Matrix Spike (2609108-MS1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride	1920	20.0	250	1810	42.9	80-120			M4
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Matrix Spike Dup (2609108-MSD1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride	1860	20.0	250	1810	20.6	80-120	2.95	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:11
---	---	------------------------------------

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				EL02294		23003-0002			X			X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
1012	2/24/2026	S	1	SW01 - 0-8'		1								X		5.3			
858	2/24/2026	S	1	SW02 - 0-8'		2								X		2.5			
900	2/24/2026	S	1	SW03 - 0-8'		3								X		4.8			
902	2/24/2026	S	1	SW04 - 0-8'		4								X		3.1			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																			
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							
		2/25/2026		7:11		Michelle Gonzales		2-25-26		0711									
Michelle Gonzales		2-25-26		1415		Marissa Gonzales		2-25-26		1415									
Marissa Gonzales		2-25-26		1845		Johnny Archuleta		2-25-26		1845									
Johnny Archuleta		2-25-26		2200		Keith Marco		2-26-26		800									
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: 2/26/2026 9:10:22AM

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: 02/26/26 08:00 Work Order ID: E602294
Phone: (972) 371-5200 Date Logged In: 02/25/26 14:48 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 02/27/26 17:00 (1 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 L-DT and R-NV.

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

Date



envirotech Inc.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT		State					
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E1002294		23003-0002						X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information										Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEO.1005- TX	PCRA B Metals	RGDOC - NM	RGDOC - TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
1012	2/24/2026	S	1	SW 13 SW01 NS - 0-8'		1								X		5.3			Changed
858	2/24/2026	S	1	SW 14 SW02 NS - 0-8'		2								X		2.5			Sample names
900	2/24/2026	S	1	SW 15 SW02 NS - 0-8'		3								X		4.8			per
902	2/24/2026	S	1	SW 16 SW04 NS - 0-8'		4								X		3.1			C.H. NS 3-2-26
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																			
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>Jarad McCauley</i>				2/25/2026		7:11		<i>Michelle Gonzales</i>				2-25-26		0711					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
<i>Michelle Gonzales</i>				2-25-26		1415		<i>Mariassa Gonzales</i>				2-25-26		1415					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only			
<i>Mariassa Gonzales</i>				2-25-26		1845		<i>Johanny Archuleta</i>				2-25-26		1845		Received on ice:			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Y/N			
<i>Johanny Archuleta</i>				2-25-26		2200		<i>Smith Marco</i>				2-26-26		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.																			

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E602295

Job Number: 23003-0002

Received: 2/26/2026

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/2/26

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: 3/2/26

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

Project Name: Santa Fe Exploration TB
Workorder: E602295
Date Received: 2/26/2026 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2026 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21-8'	E602295-01A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS22-8'	E602295-02A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS23-10'	E602295-03A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS24-10'	E602295-04A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS25-10'	E602295-05A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS26-10'	E602295-06A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.
FS27-10'	E602295-07A	Soil	02/25/26	02/26/26	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS21-8'

E602295-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	174	25.0	1	02/26/26	02/26/26	
Oil Range Organics (C28-C36)	61.4	50.0	1	02/26/26	02/26/26	
<i>Surrogate: n-Nonane</i>		101 %	61-141	02/26/26	02/26/26	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2609108
Chloride	51.7	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS22-8'

E602295-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	75.7	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	50.3	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		97.2 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	354	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS23-10'

E602295-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	58.3	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	53.6	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		101 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	152	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS24-10'

E602295-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	43.7	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		100 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	114	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS25-10'

E602295-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	148	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	56.3	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		99.4 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	194	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS26-10'

E602295-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	146	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	59.2	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		98.6 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	393	20.0	1	02/26/26	02/26/26	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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FS27-10'

E602295-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Benzene	ND	0.0250	1	02/26/26	02/26/26	
Ethylbenzene	ND	0.0250	1	02/26/26	02/26/26	
Toluene	ND	0.0250	1	02/26/26	02/26/26	
o-Xylene	ND	0.0250	1	02/26/26	02/26/26	
p,m-Xylene	ND	0.0500	1	02/26/26	02/26/26	
Total Xylenes	ND	0.0250	1	02/26/26	02/26/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2609105
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/26	02/26/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	02/26/26	02/26/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2609112
Diesel Range Organics (C10-C28)	133	25.0	1	02/26/26	02/27/26	
Oil Range Organics (C28-C36)	55.5	50.0	1	02/26/26	02/27/26	
<i>Surrogate: n-Nonane</i>		100 %	61-141	02/26/26	02/27/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2609108
Chloride	508	20.0	1	02/26/26	02/26/26	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

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	8.06		8.00		101	70-130			

LCS (2609105-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2609105-MS1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.04	0.0250	5.00	ND	101	70-130			
Ethylbenzene	4.99	0.0250	5.00	ND	99.9	70-130			
Toluene	5.07	0.0250	5.00	ND	101	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130			
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike Dup (2609105-MSD1)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Benzene	5.50	0.0250	5.00	ND	110	70-130	8.64	27	
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130	8.89	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	8.80	20	
o-Xylene	5.47	0.0250	5.00	ND	109	70-130	8.50	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	8.61	23	
Total Xylenes	16.6	0.0250	15.0	ND	110	70-130	8.57	26	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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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 (2609105-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2609105-BS2)

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0		113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike (2609105-MS2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	60.2	20.0	50.0	ND	120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike Dup (2609105-MSD2)

Source: E602295-01

Prepared: 02/26/26 Analyzed: 02/26/26

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130	8.31	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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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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 (2609112-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	47.4		50.0		94.9	61-141			

LCS (2609112-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144			
Surrogate: <i>n-Nonane</i>	50.0		50.0		100	61-141			

Matrix Spike (2609112-MS1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	325	25.0	250	43.7	112	56-156			
Surrogate: <i>n-Nonane</i>	51.9		50.0		104	61-141			

Matrix Spike Dup (2609112-MSD1)

Source: E602295-04

Prepared: 02/26/26 Analyzed: 02/26/26

Diesel Range Organics (C10-C28)	308	25.0	250	43.7	106	56-156	5.21	20	
Surrogate: <i>n-Nonane</i>	50.3		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/2/2026 3:01:28PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2609108-BLK1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride ND 20.0

LCS (2609108-BS1)

Prepared: 02/26/26 Analyzed: 02/26/26

Chloride 258 20.0 250 103 90-110

Matrix Spike (2609108-MS1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride 1920 20.0 250 1810 42.9 80-120 M4

Matrix Spike Dup (2609108-MSD1)

Source: E602294-04

Prepared: 02/26/26 Analyzed: 02/27/26

Chloride 1860 20.0 250 1810 20.6 80-120 2.95 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/02/26 15:01
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E1002295		23003-002						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	BGPOC - TX	SDWA	CWA	RCRA	
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1052	2/25/2026	S	1	FS03 - 8'			1								X		3.1			
1009	2/25/2026	S	1	FS04 - 8'			2								X		3.1			
1018	2/25/2026	S	1	FS05 - 10'			3								X		3.6			
1055	2/25/2026	S	1	FS06 - 10'			4								X		5.2			
1054	2/25/2026	S	1	FS07 - 10'			5								X		3.3			
1125	2/25/2026	S	1	FS08 - 10'			6								X		3.0			
1010	2/25/2026	S	1	FS09 - 10'			7								X		3.3			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																				
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								
		2/25/2026		7:11		Michelle Gonzales		2/25/26		0711										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Michelle Gonzales		2/25/26		1415		Marissa Gonzales		2/25/26		1415										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Marissa Gonzales		2/25/26		1845		Johnny Archuleta		2/25/26		1845										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Johnny Archuleta		2/25/26		2200		Beth Mars		2/26/26		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: 2/26/2026 9:12:06AM

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: 02/26/26 08:00	Work Order ID: E602295
Phone: (972) 371-5200	Date Logged In: 02/25/26 14:55	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 02/27/26 17:00 (1 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-DT
R-NV

Client Instruction

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

Date



envirotech Inc.



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E1002295		23007-0002						X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																	
Phone: 575-988-0055				Miscellaneous:																	
Email: agiovengo@ensolum.com																					
Sample Information																					
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	TCQ 1005-TX	RCRA 8 Metals	BDOC-NM	BDOC-TX	SDWA	CWA	RCRA		
1052	2/25/2026	S	1	FS 21 FS01 8'			1										X			3.1	changed
1009	2/25/2026	S	1	FS 22 FS04 8'			2										X			3.1	sample
1018	2/25/2026	S	1	FS 23 FS05 10'			3										X			3.6	names
1055	2/25/2026	S	1	FS 24 FS06 10'			4										X			5.2	per C.H
1054	2/25/2026	S	1	FS 25 FS07 10'			5										X			3.3	MS 3-2-26
1125	2/25/2026	S	1	FS 26 FS08 10'			6										X			3.0	
1010	2/25/2026	S	1	FS 27 FS09 10'			7										X			3.3	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com, llinehan@ensolum.com, kelsie.smith@ensolum.com, llewis@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: Jarad McCauley, Liane Linehan																					
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>Jarad McCauley</i>				2/25/2026		7:11		<i>Michelle Gonzales</i>				2-25-26		0711							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
<i>Michelle Gonzales</i>				2-25-26		1415		<i>Mariasa Gonzales</i>				2-25-26		1415							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
<i>Mariasa Gonzales</i>				2-25-26		1845		<i>Johnny Archuleta</i>				2-25-26		1845							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
<i>Johnny Archuleta</i>				2-25-26		0700		<i>Michelle Mars</i>				2-26-26		800							
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 C

Remediation Deferral Request



December 17, 2025

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Santa Fe Exploration TB
Incident Number nAPP2511224161
Lea 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, excavation, and soil sampling activities at the Santa Fe Exploration TB (Site). The Site is located in Unit O, Section 06, Township 18 South, Range 33 East, in Lea County, New Mexico (32.77141°, -103.69944°) and is associated with oil and gas exploration and production operations on private land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2511224161 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On April 21, 2025, a leak developed on one of the crude oil storage tanks located inside an earthen containment. As a result, approximately 26 barrels (bbls) of crude oil were released onto the caliche pad and the adjoining pasture; 10 bbls of crude oil were recovered with a vacuum truck; 16 bbls were unrecoverable. The release impacted the earthen containment, and an off-pad area approximately 2,070 square feet in size. Matador reported the release via Notification of Release (NOR) to the New Mexico Oil Conservation Division (NMOCD) on April 22, 2025, and submitted an Initial C-141 Application (C-141) on April 22, 2025. The release was assigned Incident Number nAPP2511224161.

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 depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-02085 POD1, located at the Site. The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced to a depth of approximately 55 feet

Matador Production Company
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below ground surface (bgs) on August 28, 2025, and measured on September 2, 2025, to be dry and confirming depth to groundwater beneath the Site is estimated to be greater than 55 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 1,335 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

DELINEATION SAMPLING ACTIVITIES

Beginning on April 21, 2025, Ensolum personnel were onsite to map the release extent and conduct delineation sampling within and around the release area. Eighteen preliminary soil assessment samples (SS01 through SS13, SS09A, SS09B, SS12A, SS12B, and SS12C) were collected at the ground surface and 1-foot bgs to verify the lateral extent of the release area. Five boreholes (BH01 through BH05) were advanced via hand auger, track hoe, and air rotary drill rig to depths ranging from 1-foot to 20 feet bgs, to verify the vertical extent of the release area. Boreholes BH01 through BH03 were collected from the off-pad release area and boreholes BH04 and BH05 were collected on-pad within the earthen containment. Soil from the preliminary assessment samples and from the boreholes were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. Ensolum personnel returned to the Site on October 1, 2025, and November 24, 2025, to collect preliminary soil samples SS09A, SS09B, SS10 through SS13, SS12A, SS12B, and SS12C. Lateral delineation soil samples SS09, SS09B, and SS10 were collected at ground surface and 1-foot bgs. Lateral delineation soil samples SS11, SS12, SS12A, SS12B, SS12C, and SS13 were collected at ground surface. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix B. Photographic documentation of delineation activities is included in Appendix C.

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Santa Fe Exploration TB
Deferral Request

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (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 SAMPLING ACTIVITIES

From September 25, 2025, through October 1, 2025, Ensolum personnel were onsite to oversee excavation of the off-pad release area and to excavate the accessible area inside the earthen containment to the maximum extent practicable (MEP). Excavation of the release area was completed with a track hoe, front-end loader, and hand tools to depths ranging from 0.5 feet to 4 feet bgs. Due to the presence of active production equipment within or in the vicinity of the earthen containment, full excavation of the containment could not be completed in accordance with the Site Closure Criteria during excavation and confirmation soil sampling activities. The Site was constructed on a hill, and further excavation of the earthen containment to the east would leave a void in the side of the hill that could potentially allow for the migration of impacts to off-pad areas due to the natural slope or change in elevation in that direction. Further excavation of the earthen containment to the west could compromise the structural support for the oil load lines, potentially causing a collapse during oil loading activities and would pose a safety hazard for oil tankers pulling up to the tank containment. Following the removal of impacted soil, Ensolum personnel collected 18, 5-point composite confirmation soil samples (FS01 through FS18) representing no more than 200 square feet from the floor of the excavation and 12, 5-point composite confirmation (SW01 through SW12) from the sidewalls of the excavation. 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. All samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 2,545 square feet and approximately 444 cubic yards of impacted soil was removed from the excavation and. The impacted soil removed during excavation activities was transported and disposed of at Lea Land, LLC. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS09 and SS09B, collected at ground surface bgs and 1-foot bgs, were all in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results indicated the chloride concentration exceeded the strictest Closure Criteria in sample locations SS009A (collected on pad at 1-foot bgs) and SS10 (collected on-pad at ground surface and 1-foot bgs), but were in compliance with the Site Closure Criteria. Laboratory analytical results for borehole BH01 indicated all COC concentrations were in compliance with the Site Closure Criteria at 2 feet bgs and in compliance with the reclamation requirement at 4 feet bgs. Laboratory analytical results for borehole BH02 indicated all COC concentrations were in compliance with the Site Closure Criteria at 0.5 feet bgs and in compliance with the reclamation requirement at 1-foot bgs. Laboratory analytical results for borehole BH03 indicated all COC concentrations were in compliance with the Site Closure Criteria at 1-foot bgs and in compliance with the reclamation requirement at 2 feet bgs. Laboratory analytical results for borehole BH04, located inside the earthen containment, indicated all COC concentrations were in compliance with the Site Closure Criteria at 10 feet bgs. Laboratory analytical results for borehole BH05, located inside the

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earthen containment, indicated all COC concentrations were in compliance with the Site Closure Criteria at 6 feet bgs.

Laboratory analytical results for excavation floor confirmation samples collected off pad (FS01 through FS07) were all in compliance with the reclamation requirement. Excavation floor confirmation sample FS08, collected on-pad, was in compliance with the Site Closure Criteria at 0.5 feet bgs and excavation floor samples FS09 through FS13 exceeded the Site Closure criteria at 4 feet bgs. Confirmation sidewall soil samples SW01 through SW08, collected at depths ranging from ground surface to 4 feet bgs, were all in compliance with the Site Closure Criteria and the reclamation requirement. Confirmation sidewall samples SW09 through SW12, collected within the earthen berm at depths ranging from ground surface to 4 feet bgs, exceeded the Site Closure Criteria; borehole soil samples BH04 is also located inside the area of requested deferral.

Confirmation floor soil samples FS09 through FS13, collected at a depth of 4 feet bgs, and confirmation sidewall soil samples SW09 through SW12, collected at depths ranging from ground surface to 4 feet bgs, are located in the direct vicinity of production equipment, which limits further excavation inside the earthen containment. Confirmation floor samples FS09 through FS13 and confirmation sidewall soil samples SW09 through SW12 are located within the area of requested deferral, which is vertically defined by boreholes BH04 and BH05 at 10 feet bgs and 6 feet bgs, respectively. The laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD and additional correspondence are included in Appendix E.

RECLAMATION PLAN

The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: Simona-Upton association, gravelly fine sandy loam, 0 to 3 percent slopes, according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on October 14, 2025;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the New Mexico State Land Office (NMSLO) to meet reclamation standards for this region, which will be: NMSLO Sandy Loam (SL) seed mix;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;

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- Backfilling of the excavation has already been completed.
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, production tanks, and earthen berm preventing full excavation of impacted soil. The estimated area of requested deferral is approximately 1,492 square feet in size (approximately, 852 square feet was excavated to a depth of 4 feet bgs, and the remaining 640 square feet is at ground surface), and assuming an average depth of 9 feet based on the analytical results from delineation boreholes BH04 and BH05, a total of approximately 371 cubic yards of impacted soil remains in place. Soil in the vicinity of confirmation soil samples FS09 through FS13 are included in the area of requested deferral due to the proximity of active production equipment and safety concerns regarding the potential to destabilize the equipment if the excavation is advanced. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment and within the containment area, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples SS01 through SS09 and SS13, collected at ground surface and 1-foot bgs, and vertically defined by boreholes BH01 through BH05, collected depths ranging from ground surface to 20 feet bgs.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs, and all accessible impacted soil was removed during the excavation activities to the MEP. Any gross impacts were removed via scraping of the ground surface. 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 nAPP2511224161 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.

Sincerely,
Ensolum, LLC



Chad Hamilton
 Project Geologist



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

Matador Production Company
Santa Fe Exploration TB
Deferral Request

cc: Jason Touchet, Matador Production Company

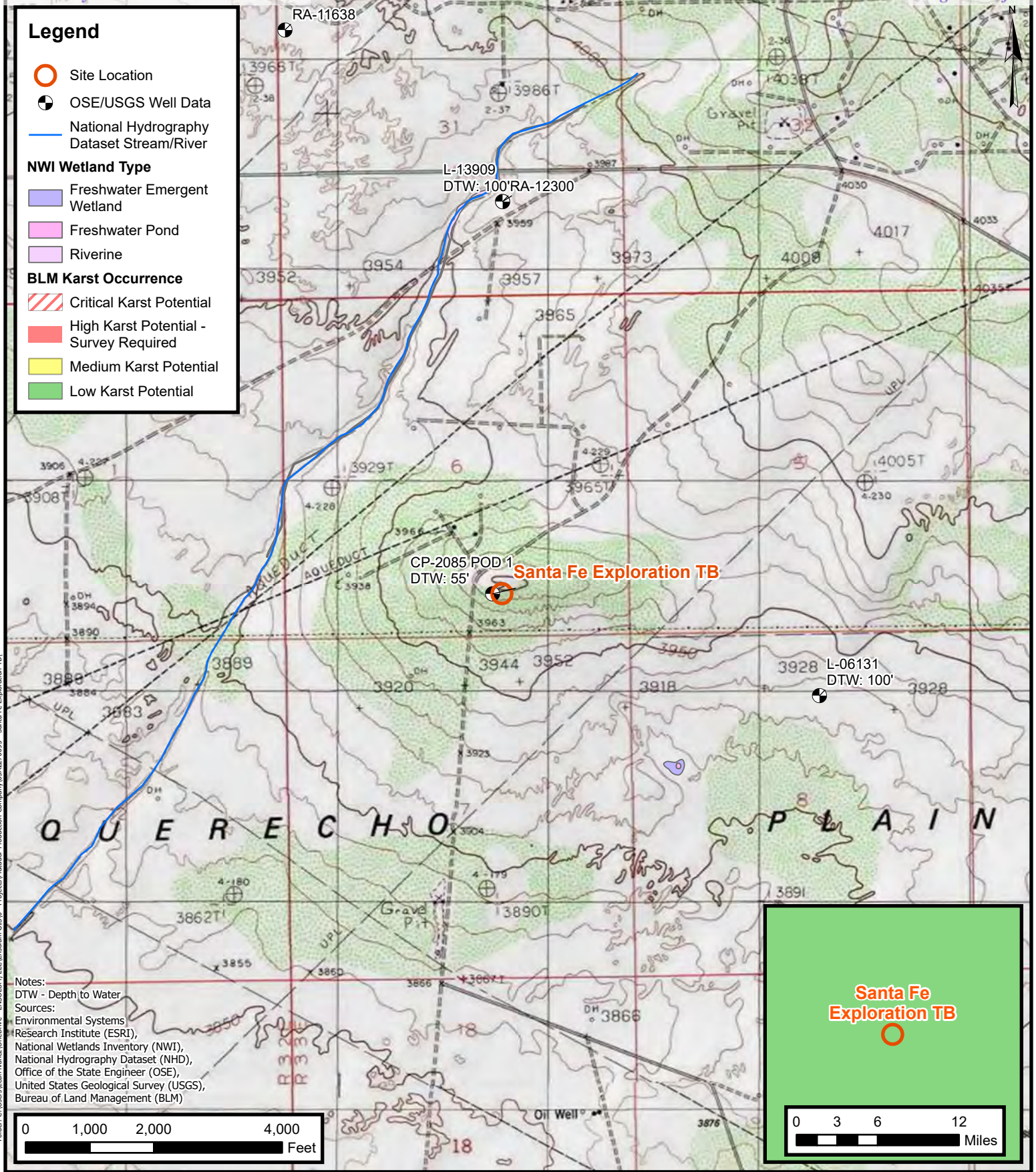
Appendices:

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



FIGURES





Site Receptor Map

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

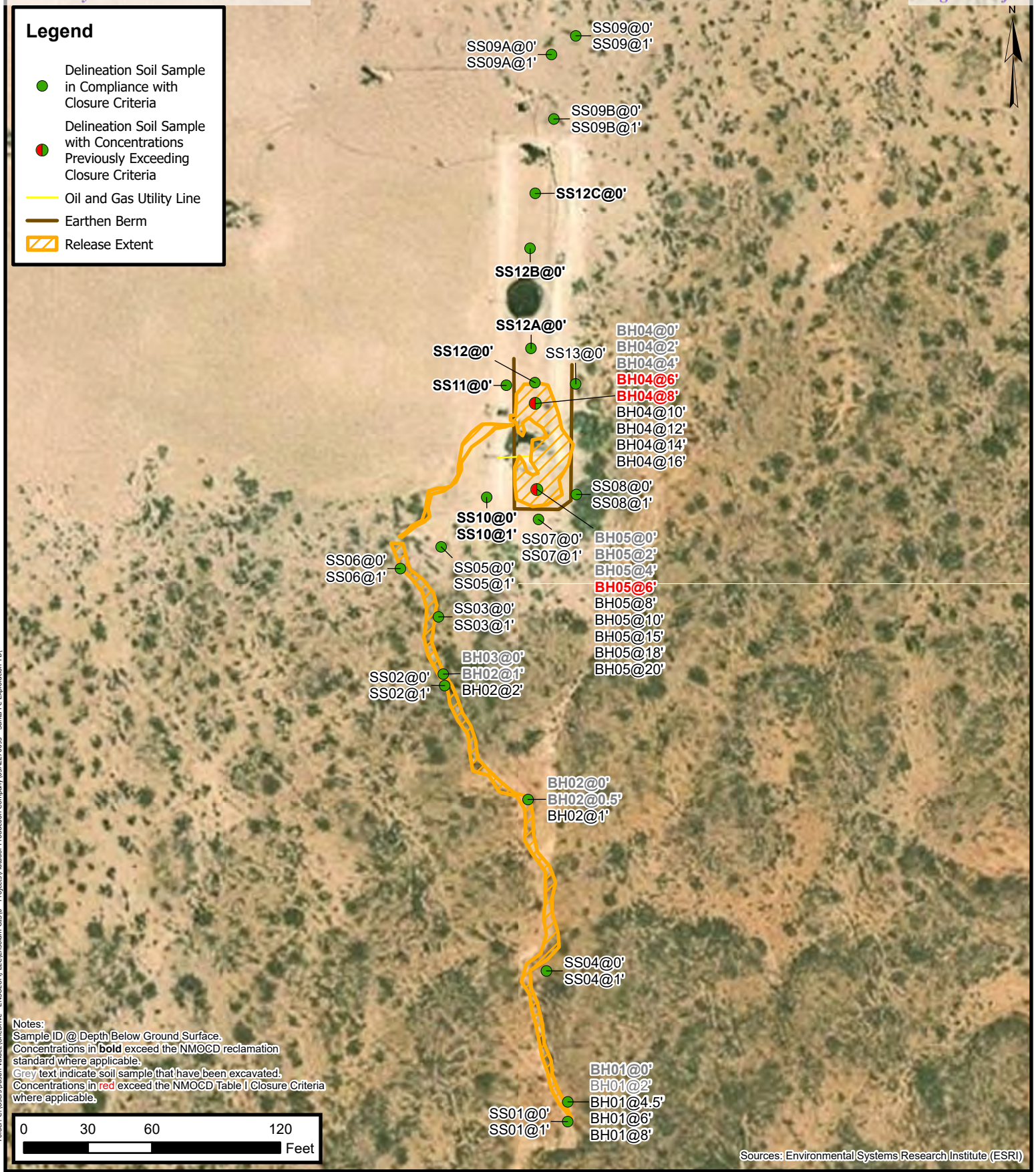
FIGURE

1

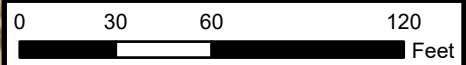


Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Earthen Berm
- Release Extent



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



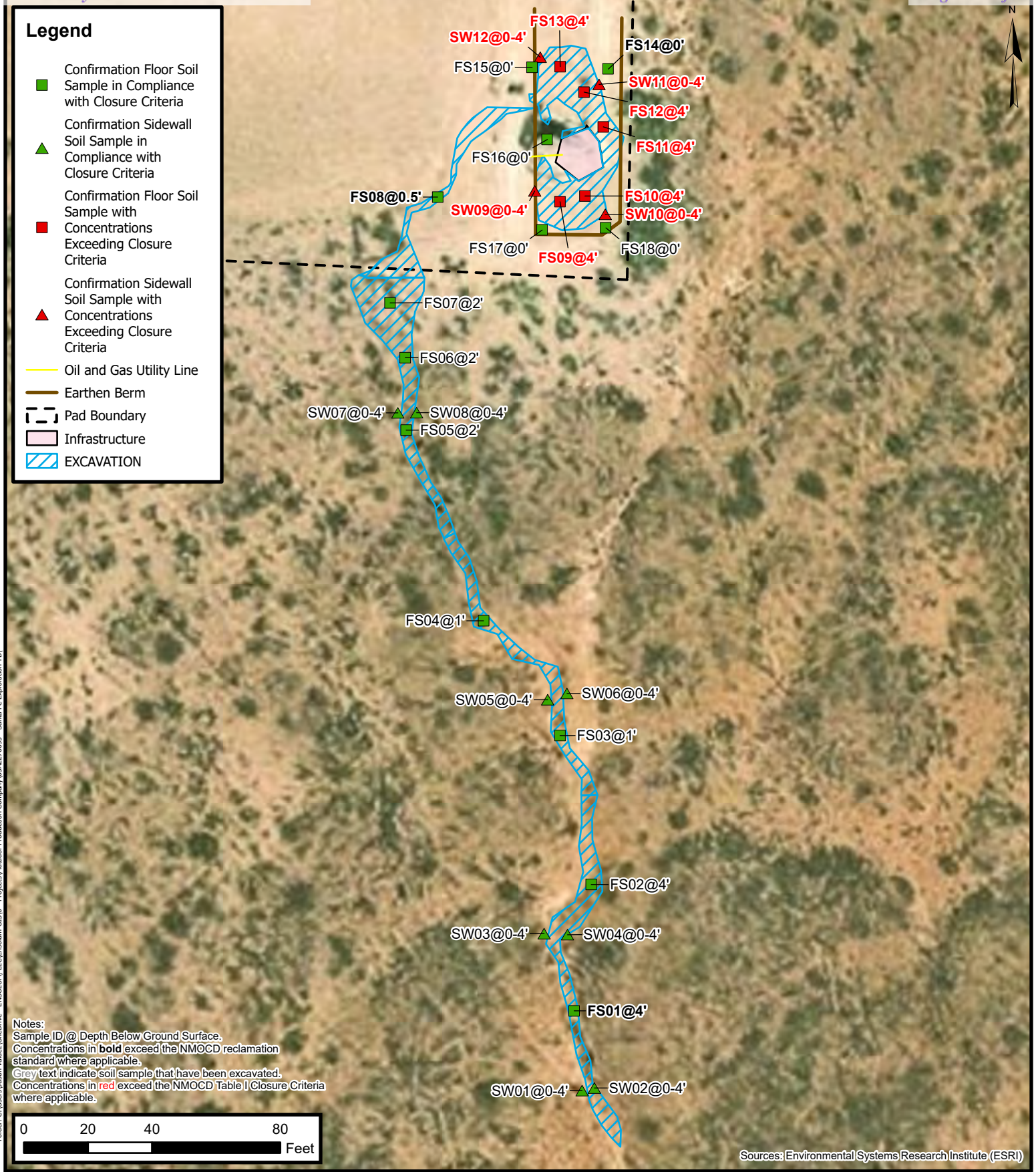
Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

FIGURE
2





Confirmation Soil Sample Location

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

FIGURE

3





Area of Requested Deferral

Matador Production Company
 Santa Fe Exploration TB
 Incident Number: nAPP2511224161
 Unit O, Section 06, T 18S, R 33E
 Lea County, New Mexico

FIGURE

4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table 1 Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
SS01	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	33.0
SS01	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	513
SS02	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/28/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.8
SS05	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.8
SS05	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	142
SS06	6/6/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS06	6/6/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.9
SS07	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.1
SS07	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	78.7
SS08	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.9
SS08	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	103
SS09	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117
SS09	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
SS09A	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.9
SS09A	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	651
SS09B	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	191
SS09B	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.3
SS10	10/1/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,350
SS10	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860
SS11	10/16/2025	0	<0.0250	<0.0500	<20.0	33.8	77.9	33.8	112	1,120
SS12	10/16/2025	0	<0.0250	<0.0500	<20.0	31.9	76.9	31.9	108.8	849
SS12A	11/24/2025	0	<0.0250	<0.0500	<20.0	39.3	122.0	39.3	161.3	132
SS12B	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,460
SS12C	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,490
SS13	10/16/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	325

TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
BH01	4/28/2025	0	3.14	184	1,130	22,700	10,100	23,830	33,930	178
BH01	4/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	449
BH01	4/28/2025	4.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,070
BH01	6/12/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH01	6/12/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	706
BH02	4/28/2025	0	1.76	189	1,100	20,500	7,160	21,600	28,760	<20.0
BH02	4/28/2025	0.5	<0.0250	<0.0500	<20.0	272	127	272	399	<20.0
BH02	6/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.3
BH03	4/28/2025	0	1.39	179	1,330	24,400	10,500	25,730	36,230	54.2
BH03	4/28/2025	1	<0.0250	<0.0500	<20.0	186	113	186	299	<20.0
BH03	6/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04	6/19/2025	0	2.29	117	730	19,600	7,120	7,850	27,450	162
BH04	6/19/2025	2	21.2	219	1,010	10,100	3,310	11,110	14,420	1,030
BH04	6/19/2025	4	17.8	287	1,660	9,830	2,930	11,490	14,420	1,070
BH04	6/19/2025	6	28.6	348	1,890	10,500	3,660	12,390	16,050	806
BH04	6/19/2025	8	13.3	130	555	3,120	846	3,675	4,520	1,120
BH04	6/20/2025	10	1.11	23.7	115	765	266	880	1,146	200
BH04	6/20/2025	12	0.0449	1.94	<20.0	310	126	310	436	191
BH04	6/20/2025	14	0.0512	2.20	<20.0	400	161	400	561	335
BH04	6/20/2025	16	0.234	4.11	22.0	63.0	<50.0	85.0	85.0	257

TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
BH05	6/20/2025	0	7.27	359	1,450	42,100	11,700	43,550	55,250	<20.0
BH05	6/23/2025	2	9.92	140	441	4,810	1,490	5,251	6,741	40.3
BH05	6/23/2025	4	7.25	125	386	4,590	1,520	4,976	6,496	<20.0
BH05	6/23/2025	6	5.57	75.6	243	4,790	1,840	5,033	6,873	26.5
BH05	8/28/2025	8	0.18	14.1	61.2	269	86.1	269	355	<20.0
BH05	8/28/2025	10	<0.0250	0.33	<20.0	36.3	<50.0	36.3	36.3	<20.0
BH05	8/28/2025	15	<0.0250	<0.0500	<20.0	65.1	<50.0	65.1	65.1	154
BH05	8/28/2025	18	<0.0250	<0.0500	<20.0	117	72.6	117	190	420
BH05	8/28/2025	20	<0.0250	<0.0500	<20.0	250	141	250	391	390

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
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
FS01*	9/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	932
FS02*	9/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	550
FS03*	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	183
FS04*	9/30/2025	1	0.0274	0.0717	<20.0	<25.0	<50.0	<25.0	<50.0	64.1
FS05*	9/30/2025	2	0.0347	0.0891	<20.0	<25.0	<50.0	<25.0	<50.0	592
FS06*	9/30/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	288
FS07*	9/30/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
FS08	9/30/2025	0.5	<0.0250	<0.0500	<20.0	31.6	<50.0	31.6	<50.0	2,180
FS09	9/30/2025	4	0.938	62.4	<20.0	7,210	2,550	7,210	9,760	24.8
FS10	9/30/2025	4	3.45	119	624	9,510	3,130	10,134	13,264	20.8
FS11	9/30/2025	4	0.110	1.83	<20.0	3,660	1,690	3,660	5,350	1,300
FS12	9/30/2025	4	0.0844	12	118	2,280	863	2,398	3,261	344
FS13	9/30/2025	4	11.1	225	1,290	9,730	3,660	11,020	14,680	685
FS14	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	855
FS15	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.1
FS16	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.8
FS17	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS18	11/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

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"<": 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.

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Sant Fe Exploration TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Reclamation Requirement (NMAC 19.15.29.13.D)			10	50	NE	NE	NE	NE	100	600
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			10	50	NE	NE	NE	1,000	2,500	10,000
Sidewall Soil Samples										
SW01*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	328
SW02*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
SW03*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.2
SW04*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.3
SW05*	9/30/2025	0-4	<0.0250	0.0529	<20.0	<25.0	<50.0	<25.0	<50.0	115
SW06*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117
SW07*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.1
SW08*	9/30/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.0
SW09	9/30/2025	0-4	0.853	58.9	369	8,780	3,130	9,149	12,279	28.8
SW10	9/30/2025	0-4	0.152	28.2	301	8,340	2,660	8,641	11,301	47.3
SW11	9/30/2025	0-4	0.0278	1.51	23.7	1,960	1,170	1,984	3,154	989
SW12	9/30/2025	0-4	0.115	17.5	153	2,590	1,280	2,743	4,023	531

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

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Grey text represents samples that have been excavated

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

Concentrations in **bold** exceed the NMOCD 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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). CP-02085	
	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 46	SECONDS 15.7908	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE 103	42	2.6928	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE S6 T18s R33e						

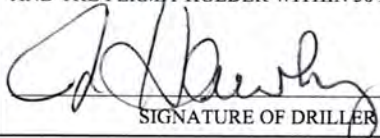
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862	NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 8-28-25	DRILLING ENDED 8-28-25	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) <small>Centralizer info below</small>				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 9-2-25		
	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'	55'	6'	No casing left in hole				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				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'	5'	5'	Caliche	Y ✓ N	
	5'	10'	5'	Sandy Caliche	Y ✓ N	
	10'	55'	45'	Red Sandy Clay	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					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 9-2-25. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cutting to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface. Santa Fe Exploration #1	
	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: 9-8-25


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





APPENDIX B


Lithologic Soil Sampling Logs

					Sample Name: BH01		Date: 4/28/25 - 6/12/25	
					Site Name: Santa Fe Exploration TB			
					Incident Number: nAPP2511224161			
					Job Number: 03A2270095			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Higinio G., Israel E.		Method: Auger, Track Hoe	
Coordinates: 32.769899, -103.699813					Hole Diameter: 2'		Total Depth: 8'	
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 40% correction factor included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH01	0	0	SP-SM	Silty Sand w/ Trace Gravel - Red to medium brown, Medium to fine w/ some very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Poorly graded, Abrupt
D			Y		1	1		
D	515		N	BH01	2	2	CCHE	Caliche - White, Medium to fine grained, Moderately indurated, Dry, Non Plastic, Noncohesive, Massive, Abrupt
D	1,170		N		3	3		
D	1,170		N	BH01	4	4		
D	795		N		4.5	4.5		
D	1,030		N	BH01	6	6	SP-SM	Silty Sand - Medium to light brown, Medium to fine, Dry, Non-Plastic, Noncohesive, Massive, Well graded, Abrupt
D	1,030		N		7	7		
D	431	45	N	BH01	8	8		
Total Depth @ 8 feet bgs.								

					Sample Name: BH02		Date: 4/28/25 - 6/12/25	
					Site Name: Santa Fe Exploration TB			
					Incident Number: nAPP2511224161			
					Job Number: 03A2270095			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Higinio G., Israel E.		Method: Auger, Track Hoe	
Coordinates: 32.770288, -103.699868					Hole Diameter: 2'		Total Depth: 1'	
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 40% correction factor included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH02	0	0	SP-SM	Silty Sand w/ Trace Gravel - Red to medium brown, Medium to fine w/ some very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Poorly graded, Abrupt
D	ND	26	N	BH02	1	1		
Total Depth @ 1-foot bgs.								

					Sample Name: BH03		Date: 4/28/25 - 6/12/25	
					Site Name: Santa Fe Exploration TB			
					Incident Number: nAPP2511224161			
					Job Number: 03A2270095			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Higinio G., Israel E.		Method: Track Hoe	
Coordinates: 32.770450, -103.699995					Hole Diameter: 2'		Total Depth: 2'	
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 40% correction factor included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH03	0	0	SP-SM	Silty Sand w/ Trace Gravel - Red to medium brown, Medium to fine w/ some very fine grain size, Dry, Non-Plastic, Noncohesive, Massive, Poorly graded, Abrupt
D			N	BH03	1	1		
D	ND	44	N	BH03	2	2	CCHE	Caliche - White, Medium to fine grained, Moderately indurated, Dry, Non Plastic, Noncohesive, Massive
Total Depth @ 2 feet bgs.								

					Sample Name: BH04		Date: 6/19/25 - 6/20/2025			
					Site Name: Santa Fe Exploration TB					
					Incident Number: nAPP2511224161					
					Job Number: 03A2270095					
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Core Drill			
Coordinates: 32.770797, -103.699849					Hole Diameter: 6"		Total Depth: 16'			
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 40% correction factor 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	CCHE	Pad Caliche - White with black staining, Medium to fine grained, Dry, Non Plastic, Noncohesive, Massive		
D			Y		1	1				
D			Y	BH04	2	2				
D			Y		3	3				
D			Y	BH04	4	4				
D			N		5	5				
D			N	BH04	6	6			SC	Caliche - White, Medium to fine grained, Moderately indurated, Dry, Non Plastic, Noncohesive, Massive Strong Odor
D			N		7	7				
D			N	BH04	8	8				
D			N		9	9	SC	Clayey Sand w/ Trace Gravel - Medium to dark brown, Fine to very fine grained w/ trace small gravel, Low plasticity, Cohesive, Massive Strong odor		
D			N	BH04	10	10				
D			N		11	11				
D	ND	253	N	BH04	12	12	CCHE	Caliche - White, Medium to fine grained, Moderately indurated, Dry, Non Plastic, Noncohesive, Massive		
D			N		13	13				
D	224	235	N	BH04	14	14				
D			N		15	15				
D	126	265	N	BH04	16	16				
Total Depth @ 16 feet bgs.										

					Sample Name: BH05		Date: 6/23/25 - 8/28/25	
					Site Name: Santa Fe Exploration TB			
					Incident Number: nAPP2511224161			
					Job Number: 03A2270095			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Higinio G., Israel E.		Method: Auger, Core Drill	
Coordinates: 32.770686, -103.699848					Hole Diameter: 6"		Total Depth: 20'	
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 40% correction factor included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH05	0	0	CCHE	Pad Caliche - Whitewith black staining, Medium to fine grained, Dry, Non Plastic, Noncohesive, Massive
D			Y		1	1		
D			N	BH05	2	2		
D			N		3	3		
D			N	BH05	4	4		
D			N		5	5		
D			N	BH05	6	6	SC)	Clayey Sand w/ Trace Gravel - Medium to dark brown, Fine to very fine grained w/ trace small gravel, Low plasticity, Cohesive, Massive Strong odor
M			N		7	7		
M			N	BH05	8	8		
M			N		9	9		
M	ND	255	N	BH05	10	10		
M			N		11	11		
M	ND	100	N		12	12	CL	Clay w/ Some Gravel - Medium to dark brown, Very fine grained w/ some small gravel, Low plasticity, Cohesive, Massive Strong odor
M	ND	55	N		14	14		
M	241	48	N	BH05	15	15		
M	420	134	N	BH05	18	18		
M	420	79	N	BH05	20	20		
Total Depth @ 20 feet bgs.								



APPENDIX C

Photographic Log



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 1 Date: 4/21/2025
Description: Lease Sign
View: North



Photograph 2 Date: 4/21/2025
Description: Release Area
View: Southeast



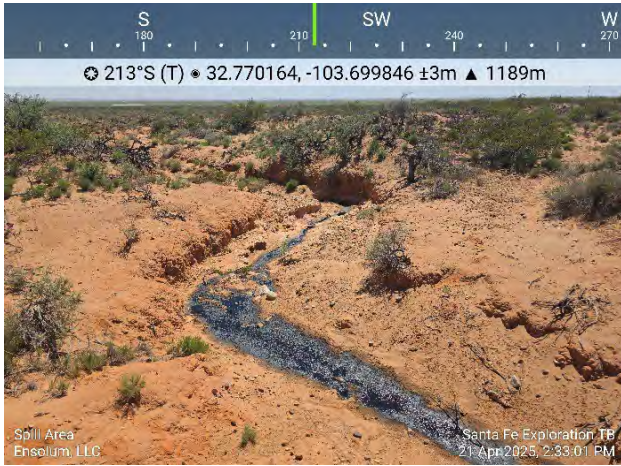
Photograph 3 Date: 4/21/2025
Description: Release Area
View: Southeast



Photograph 4 Date: 4/21/2025
Description: Release Area
View: South

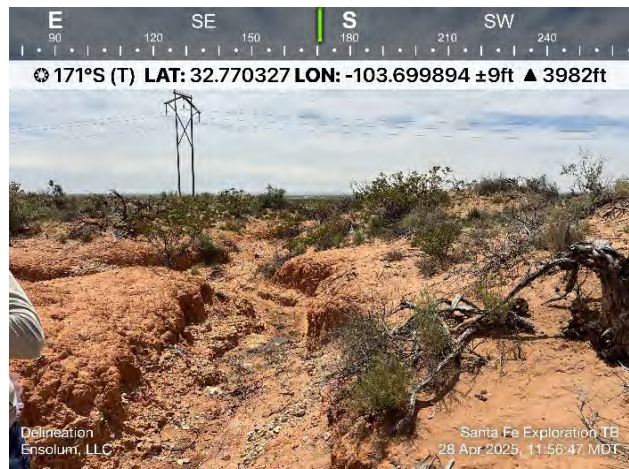


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 5 Date: 4/21/2025
Description: Release Extent
View: Southwest

Photograph 6 Date: 4/21/2025
Description: Release Extent
View: North



Photograph 6 Date: 4/28/2025
Description: Delineation
View: Northwest

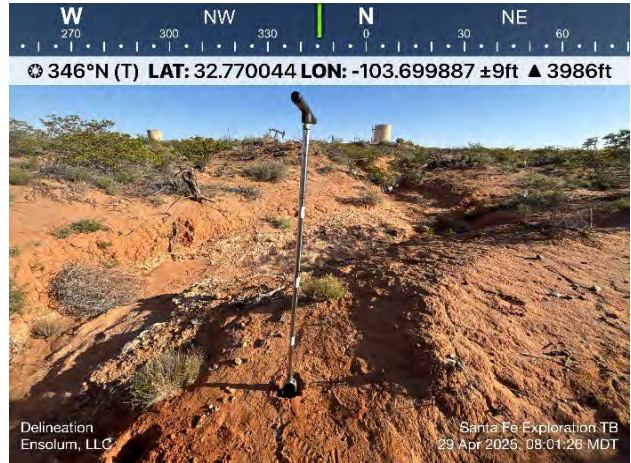
Photograph 7 Date: 4/28/2025
Description: Delineation
View: South



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 9 Date: 4/29/2025
Description: Delineation
View: Northeast



Photograph 10 Date: 4/29/2025
Description: Delineation
View: North



Photograph 11 Date: 6/12/2025
Description: Delineation (BH01)
View: Northeast



Photograph 12 Date: 6/12/2025
Description: Delineation (BH01)
View: Northeast

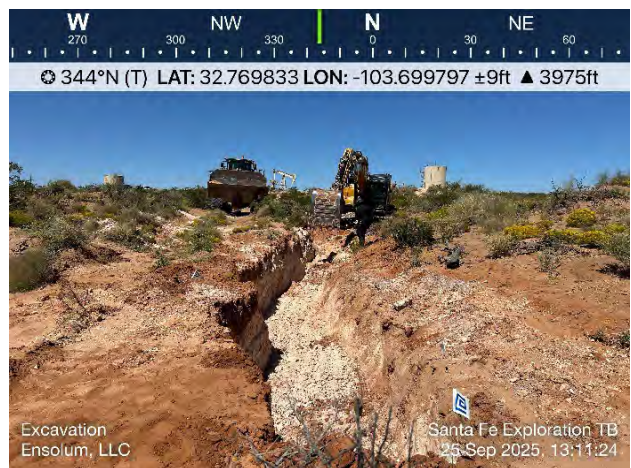


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 13 Date: 6/20/2025
Description: Delineation (BH04)
View: Southeast

Photograph 14 Date: 8/28/2025
Description: Depth to Water Boring
View: West



Photograph 15 Date: 8/28/2025
Description: Depth to Water Boring
View: East

Photograph 16 Date: 9/25/2025
Description: Excavation Activities
View: North



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 17 Date: 9/25/2025
Description: Excavation Activities
View: Northeast

Photograph 18 Date: 9/26/2025
Description: Excavation Activities
View: North



Photograph 19 Date: 9/26/2025
Description: Excavation Activities
View: Northeast

Photograph 20 Date: 9/29/2025
Description: Excavation Activities
View: Northeast

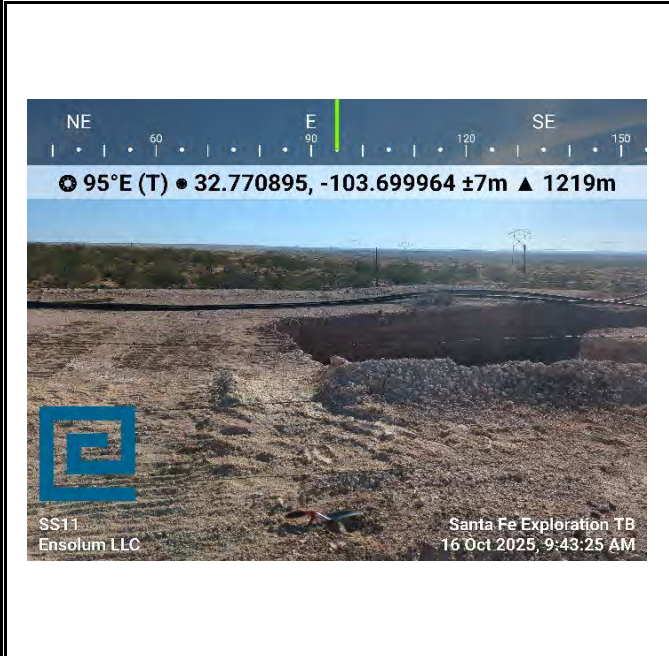


Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 21 Date: 9/29/2025
Description: Excavation Activities
View: South

Photograph 22 Date: 9/30/2025
Description: Excavation Activities
View: West

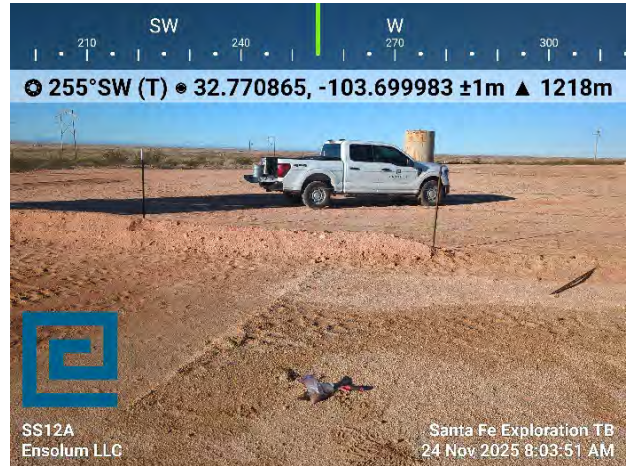
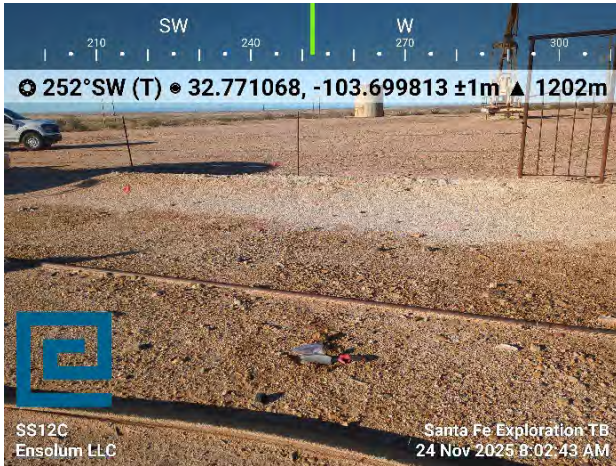


Photograph 23 Date: 10/16/2025
Description: Delineation (SS11)
View: East

Photograph 24 Date: 10/16/2025
Description: Delineation (SS13)
View: Southeast



Photographic Log
Matador Production Company
Santa Fe Exploration TB
nAPP2511224161



Photograph 25 Date:11/24/2025
Description: Delineation (SS12C)
View: West

Photograph 26 Date:11/24/2025
Description: Delineation (SS12A)
View: West



Photograph 27 Date:11/24/2025
Description: Backfilled Release Area
View: East

Photograph 28 Date:11/24/2025
Description: Backfilled Release Area
View: East



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E504299

Job Number: 23003-0002

Received: 4/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/6/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/6/25



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

Project Name: Santa Fe Exploration TB
Workorder: E504299
Date Received: 4/30/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/06/25 11:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E504299-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01-2'	E504299-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01-4.5'	E504299-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02-0'	E504299-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02-0.5'	E504299-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03-0'	E504299-06A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03-1'	E504299-07A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS01-0'	E504299-08A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS01-1'	E504299-09A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS02-0'	E504299-10A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS02-1'	E504299-11A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS03-0'	E504299-12A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
SS03-1'	E504299-13A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH01-0'
E504299-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	3.14	0.125	5	04/30/25	05/01/25	
Ethylbenzene	48.2	0.125	5	04/30/25	05/01/25	
Toluene	51.7	0.125	5	04/30/25	05/01/25	
o-Xylene	25.0	0.125	5	04/30/25	05/01/25	
p,m-Xylene	56.1	0.250	5	04/30/25	05/01/25	
Total Xylenes	81.1	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	1130	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	22700	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	10100	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		310 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	178	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH01-2'
E504299-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.0 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		84.6 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	449	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH01-4.5'

E504299-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.4 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	98.7	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	53.0	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		86.2 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	1070	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH02-0'
E504299-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	1.76	0.125	5	04/30/25	05/01/25	
Ethylbenzene	53.0	0.125	5	04/30/25	05/01/25	
Toluene	43.0	0.125	5	04/30/25	05/01/25	
o-Xylene	28.5	0.125	5	04/30/25	05/01/25	
p,m-Xylene	62.4	0.250	5	04/30/25	05/01/25	
Total Xylenes	90.9	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	1100	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	20500	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	7160	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		419 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH02-0.5'

E504299-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.1 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	272	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	127	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		83.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH03-0'

E504299-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	1.39	0.125	5	04/30/25	05/01/25	
Ethylbenzene	49.7	0.125	5	04/30/25	05/01/25	
Toluene	42.6	0.125	5	04/30/25	05/01/25	
o-Xylene	26.4	0.125	5	04/30/25	05/01/25	
p,m-Xylene	58.6	0.250	5	04/30/25	05/01/25	
Total Xylenes	85.0	0.125	5	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	1330	100	5	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	24400	1250	50	04/30/25	05/01/25	T9
Oil Range Organics (C28-C36)	10500	2500	50	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		332 %	61-141	04/30/25	05/01/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	54.2	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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BH03-1'
E504299-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/02/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/02/25	
Toluene	ND	0.0250	1	04/30/25	05/02/25	
o-Xylene	ND	0.0250	1	04/30/25	05/02/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/02/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/30/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %	70-130	04/30/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	186	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	113	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		84.5 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS01-0'

E504299-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		86.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	33.0	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS01-1'

E504299-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		89.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	513	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS02-0'

E504299-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.1 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		83.0 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS02-1'

E504299-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>		83.4 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS03-0'

E504299-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.3 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		84.0 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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SS03-1'

E504299-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518054
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.5 %	70-130	04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		82.8 %	61-141	04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518068
Chloride	ND	20.0	1	04/30/25	04/30/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518054-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

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	8.22		8.00		103	70-130			

LCS (2518054-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	4.75	0.0250	5.00		94.9	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.27	0.0500	10.0		92.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.70		8.00		109	70-130			

Matrix Spike (2518054-MS1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.85	0.0250	5.00	ND	117	70-130			
Ethylbenzene	5.87	0.0250	5.00	ND	117	70-130			
Toluene	5.85	0.0250	5.00	ND	117	70-130			
o-Xylene	5.84	0.0250	5.00	ND	117	70-130			
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130			
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			

Matrix Spike Dup (2518054-MSD1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.88	0.0250	5.00	ND	118	70-130	0.590	27	
Ethylbenzene	5.94	0.0250	5.00	ND	119	70-130	1.31	26	
Toluene	5.90	0.0250	5.00	ND	118	70-130	0.849	20	
o-Xylene	5.90	0.0250	5.00	ND	118	70-130	0.970	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	1.31	23	
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130	1.20	26	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518054-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.11		8.00		76.4	70-130			

LCS (2518054-BS2)

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		81.0	70-130			

Matrix Spike (2518054-MS2)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.1	70-130			

Matrix Spike Dup (2518054-MSD2)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	5.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518064-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.9		50.0		81.9	61-141			

LCS (2518064-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	213	25.0	250		85.0	66-144			
Surrogate: n-Nonane	40.5		50.0		81.0	61-141			

Matrix Spike (2518064-MS1)

Source: E504299-03

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	277	25.0	250	98.7	71.4	56-156			
Surrogate: n-Nonane	44.1		50.0		88.2	61-141			

Matrix Spike Dup (2518064-MSD1)

Source: E504299-03

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	275	25.0	250	98.7	70.4	56-156	0.919	20	
Surrogate: n-Nonane	45.1		50.0		90.1	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/6/2025 11:14:48AM
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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 (2518068-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	ND	20.0							
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LCS (2518068-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	252	20.0	250		101	90-110			
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Matrix Spike (2518068-MS1)

Source: E504296-03

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	1030	20.0	250	1130	NR	80-120			M4
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Matrix Spike Dup (2518068-MSD1)

Source: E504296-03

Prepared: 04/30/25 Analyzed: 04/30/25

Chloride	875	20.0	250	1130	NR	80-120	16.5	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/06/25 11:14
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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.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 4/28/2026 1:57:44 PM

Received by OCD: 4/1/2026 8:44:35 AM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E504299		2303002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
										Compliance	Y	or	N	PWSID #	Remarks					
1002	4/28/2025	S	1	BH01-0'			1						X						3.2	
1008	4/28/2025	S	1	BH01-2'			2						X						3.1	
1133	4/28/2025	S	1	BH01-4.5'			3						X						2.8	
1147	4/28/2025	S	1	BH02-0'			4						X						2.9	
1152	4/28/2025	S	1	BH02-0.5			5						X						2.5	
1210	4/28/2025	S	1	BH03-0'			6						X						1.8	
1218	4/28/2025	S	1	BH03-1'			7						X						1.2	
1356	4/28/2025	S	1	SS01-0'			8						X						1.1	
1355	4/28/2025	S	1	SS01-1'			9						X						2.6	
1344	4/28/2025	S	1	SS02-0'			10						X						2.4	

Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com

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

Sampled by: Higinio Gonzalez, Aboubakar Kone						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____					
<i>[Signature]</i>	4/29/25	1100	Michelle Gonzales	4-29-25	1100						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Michelle Gonzales</i>	4-29-25	1700	<i>[Signature]</i>	4-29-25	1700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	4.29.25	2330	<i>[Signature]</i>	4-30-25	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.

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Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E504299		230030002					X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																	
Phone: 575-988-0055				Miscellaneous:																	
Email: agiovengo@ensolum.com																					

Sample Information											Analysis and Method								EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
																Compliance	Y	or	N			
																PWSID #						
1345	4/28/2025	S	1	SS02-1			11						X							32		
1234	4/28/2025	S	1	SS03-0			12						X							3.6		
1235	4/28/2025	S	1	SS03-1			13						X							3.0		

Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com

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

Sampled by: Higinio Gonzalez, Aboubakar Kone

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
<i>[Signature]</i>	4/29/25	1100	<i>Michelle Gonzales</i>	4.29.25	1100	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	4.29.25	1700	<i>John J.</i>	4.29.25	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>John J.</i>	4.29.25	2330	<i>Carthé Mar</i>	4.29.25	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: 4/30/2025 10:46:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 04/30/25 08:00	Work Order ID: E504299
Phone: (972) 371-5200	Date Logged In: 04/29/25 15:10	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 05/06/25 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: Santa Fe Exploration TB

Work Order: E504315

Job Number: 23003-0002

Received: 5/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/7/25



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

Project Name: Santa Fe Exploration TB
Workorder: E504315
Date Received: 5/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/1/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 11:34
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04-0'	E504315-01A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS04-1'	E504315-02A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-0'	E504315-03A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-1'	E504315-04A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS07-0'	E504315-05A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS07-1'	E504315-06A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS08-0'	E504315-07A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS08-1'	E504315-08A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS09-0'	E504315-09A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS09-1'	E504315-10A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS04-0'

E504315-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.4 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2518093
Chloride	ND	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS04-1'

E504315-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.9 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	31.8	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS05-0'

E504315-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		77.3 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	53.8	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS05-1'

E504315-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.0 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	142	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS07-0'

E504315-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.2 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	31.1	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS07-1'

E504315-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.6 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	78.7	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS08-0'

E504315-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.0 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	47.9	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS08-1'

E504315-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.1 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	103	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS09-0'

E504315-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.8 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	05/01/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	117	20.0	1	05/01/25	05/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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SS09-1'

E504315-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.4 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518093
Chloride	222	20.0	1	05/01/25	05/02/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

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	8.45		8.00		106	70-130			

LCS (2518087-BS1)

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.66	0.0250	5.00		93.3	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.94	0.0250	5.00		98.9	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.5	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike (2518087-MS1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.99	0.0250	5.00	ND	99.8	70-130			
Ethylbenzene	5.31	0.0250	5.00	ND	106	70-130			
Toluene	5.18	0.0250	5.00	ND	104	70-130			
o-Xylene	5.30	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

Matrix Spike Dup (2518087-MSD1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.68	0.0250	5.00	ND	93.7	70-130	6.34	27	
Ethylbenzene	5.01	0.0250	5.00	ND	100	70-130	5.95	26	
Toluene	4.87	0.0250	5.00	ND	97.4	70-130	6.19	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	70-130	6.07	25	
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	70-130	5.91	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	70-130	5.96	26	
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.49		8.00		81.1	70-130			

LCS (2518087-BS2)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00		81.5	70-130			

Matrix Spike (2518087-MS2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

Matrix Spike Dup (2518087-MSD2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	2.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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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 (2518084-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.3		50.0		105	61-141			

LCS (2518084-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144			
Surrogate: n-Nonane	51.5		50.0		103	61-141			

Matrix Spike (2518084-MS1)

Source: E504316-06

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	56-156			
Surrogate: n-Nonane	51.2		50.0		102	61-141			

Matrix Spike Dup (2518084-MSD1)

Source: E504316-06

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156	0.717	20	
Surrogate: n-Nonane	53.1		50.0		106	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 11:34:41AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518093-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	ND	20.0							
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LCS (2518093-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2518093-MS1)

Source: E504304-28

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	406	20.0	250	167	95.6	80-120			
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Matrix Spike Dup (2518093-MSD1)

Source: E504304-28

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	438	20.0	250	167	108	80-120	7.42	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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 11:34
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Received by OCD: 4/1/2026 8:44:35 AM

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Client Information				Invoice Information				Lab Use Only				TAT				State										
Client: Matador Project: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO# E504315		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX							
												Analysis and Method				EPA Program										
												DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N
																PWSID #										
																Remarks										
Sample Information																										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number																				
0927	4-29-25	S	1	SS04 - 0'		1								X					4.1							
0924		S	1	SS04 - 1'		2								X					3.7							
1414		S	1	SS05 - 0'		3								X					2.6							
1426		S	1	SS05 - 1'		4								X					2.6							
1201		S	1	SS07 - 0'		5								X					3.0							
1202		S	1	SS07 - 1'		6								X					2.9							
1125		S	1	SS08 - 0'		7								X					3.2							
1136		S	1	SS08 - 1'		8								X					2.4							
1512		S	1	SS09 - 0'		9								X					2.9							
1943		S	1	SS09 - 1'		10								X					3.3							
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																										
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																										
Sampled by: <u>Higinio Gonzalez, Aboubakar Kone</u>																										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																		
		4-30-25		Michelle Gonzalez		4-30-25	1015																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																			
		4-30-25	1540	Richard Gonzalez		4-30-25	1540																			
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 T1 _____ T2 _____ T3 _____ AVG Temp °C _____																		
		4-30-25	2130	Cathy Moran		5-1-25	730																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																										

Released to Imaging: 4/28/2026 1:57:44 PM

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Envirotech Analytical Laboratory

Printed: 5/1/2025 8:31:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 05/01/25 07:30	Work Order ID: E504315
Phone: (972) 371-5200	Date Logged In: 04/30/25 14:38	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 05/07/25 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

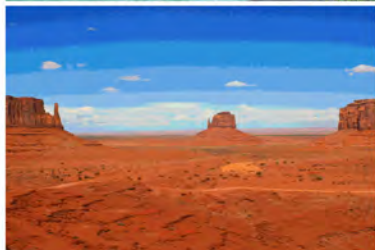
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E506064

Job Number: 23003-0002

Received: 6/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/16/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/16/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506064
Date Received: 6/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/10/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/16/25 16:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06 - 0'	E506064-01A	Soil	06/06/25	06/10/25	Glass Jar, 2 oz.
SS06 - 1'	E506064-02A	Soil	06/06/25	06/10/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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SS06 - 0'

E506064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Benzene	ND	0.0250	1	06/10/25	06/12/25	
Ethylbenzene	ND	0.0250	1	06/10/25	06/12/25	
Toluene	ND	0.0250	1	06/10/25	06/12/25	
o-Xylene	ND	0.0250	1	06/10/25	06/12/25	
p,m-Xylene	ND	0.0500	1	06/10/25	06/12/25	
Total Xylenes	ND	0.0250	1	06/10/25	06/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.0 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/25	06/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2524060
Diesel Range Organics (C10-C28)	ND	25.0	1	06/10/25	06/12/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/25	06/12/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	06/10/25	06/12/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2524072
Chloride	ND	20.0	1	06/11/25	06/11/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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SS06 - 1'

E506064-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Benzene	ND	0.0250	1	06/10/25	06/12/25	
Ethylbenzene	ND	0.0250	1	06/10/25	06/12/25	
Toluene	ND	0.0250	1	06/10/25	06/12/25	
o-Xylene	ND	0.0250	1	06/10/25	06/12/25	
p,m-Xylene	ND	0.0500	1	06/10/25	06/12/25	
Total Xylenes	ND	0.0250	1	06/10/25	06/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.3 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2524034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/25	06/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/10/25	06/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2524060
Diesel Range Organics (C10-C28)	ND	25.0	1	06/10/25	06/12/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/10/25	06/12/25	
<i>Surrogate: n-Nonane</i>						
		99.3 %	61-141	06/10/25	06/12/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2524072
Chloride	39.9	20.0	1	06/11/25	06/11/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524034-BLK1)

Prepared: 06/10/25 Analyzed: 06/11/25

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	7.30		8.00		91.2	70-130			

LCS (2524034-BS1)

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.2	70-130			

Matrix Spike (2524034-MS1)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	5.13	0.0250	5.00	ND	103	70-130			
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130			
Toluene	5.11	0.0250	5.00	ND	102	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130			
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2524034-MSD1)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Benzene	4.59	0.0250	5.00	ND	91.9	70-130	11.0	27	
Ethylbenzene	4.53	0.0250	5.00	ND	90.7	70-130	11.0	26	
Toluene	4.57	0.0250	5.00	ND	91.3	70-130	11.2	20	
o-Xylene	4.52	0.0250	5.00	ND	90.3	70-130	10.6	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	10.7	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.4	70-130	10.6	26	
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524034-BLK1)

Prepared: 06/10/25 Analyzed: 06/11/25

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

LCS (2524034-BS2)

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

Matrix Spike (2524034-MS2)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike Dup (2524034-MSD2)

Source: E506061-08

Prepared: 06/10/25 Analyzed: 06/11/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	3.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524060-BLK1)

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.2	61-141			

LCS (2524060-BS1)

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: <i>n</i> -Nonane	49.3		50.0		98.6	61-141			

Matrix Spike (2524060-MS1)

Source: E506067-01

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	61-141			

Matrix Spike Dup (2524060-MSD1)

Source: E506067-01

Prepared: 06/10/25 Analyzed: 06/12/25

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156	1.24	20	
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/16/2025 4:00:09PM
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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 (2524072-BLK1)

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride ND 20.0

LCS (2524072-BS1)

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 255 20.0 250 102 90-110

Matrix Spike (2524072-MS1)

Source: E506063-03

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 275 20.0 250 ND 110 80-120

Matrix Spike Dup (2524072-MSD1)

Source: E506063-03

Prepared: 06/11/25 Analyzed: 06/11/25

Chloride 274 20.0 250 ND 110 80-120 0.151 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/16/25 16:00
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E 506064		23003-002					X	X																																																																																																
Project Manager: Ashley Giovengo				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>DRO/DRO by 8015</td> <td>GRO/DRO by 8015</td> <td>BTEX by 8021</td> <td>VOC by 8260</td> <td>Chloride 300.0</td> <td>TCEQ 1005-TX</td> <td>RCRA 8 Metals</td> <td>BGDOC - NM</td> <td>BGDOC - TX</td> <td>SDWA</td> <td>CWA</td> <td>RCRA</td> <td colspan="2">Compliance</td> <td>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td colspan="8"></td> <td colspan="4">PWSID #</td> <td>Sample Temp</td> <td>Remarks</td> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>3.4</td> <td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>3.6</td> <td></td> </tr> </tbody> </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																		3.4																			3.6		Address: 3122 National Parks Hwy				Phone: 575-988-0055				Email: agiovengo@ensolum.com				Miscellaneous:			
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11:06	6/6/2025	Soil	1	SS06 - 0'		1								X			3.4																																																																																															
11:08	6/6/2025	Soil	1	SS06 - 1'		2								X			3.6																																																																																															
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																																																																																																																
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<i>[Signature]</i>	6-9-25	2300	Noe Soto	6-10-25	0800																																																																																																											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																																																																																
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																																																																																

Envirotech Analytical Laboratory

Printed: 6/10/2025 1:34:07PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/10/25 08:00	Work Order ID: E506064
Phone: (972) 371-5200	Date Logged In: 06/09/25 15:53	Logged In By: Noe Soto
Email: agiovengo@ensolum.com	Due Date: 06/16/25 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E510033

Job Number: 23003-0002

Received: 10/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/25

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: 10/9/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510033
Date Received: 10/3/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2025 7:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/25 08:34
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS09A-0'	E510033-01A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09A-1'	E510033-02A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09B-0'	E510033-03A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS09B-1'	E510033-04A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS10-0'	E510033-05A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SS10-1'	E510033-06A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09A-0'

E510033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2540126	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540128	
Chloride	40.9	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09A-1'

E510033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	651	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09B-0'

E510033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.9 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	191	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS09B-1'

E510033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	66.3	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS10-0'

E510033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		98.2 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: TP		Batch: 2540128
Chloride	3350	40.0	2	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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SS10-1'

E510033-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	1860	40.0	2	10/03/25	10/04/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540134-BLK1)

Prepared: 10/03/25 Analyzed: 10/06/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

LCS (2540134-BS1)

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		94.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike (2540134-MS1)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00	ND	92.6	70-130			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	70-130			
Toluene	4.74	0.0250	5.00	ND	94.8	70-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	70-130			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2540134-MSD1)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.91	0.0250	5.00	ND	98.2	70-130	5.88	27	
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130	6.46	26	
Toluene	5.04	0.0250	5.00	ND	101	70-130	6.05	20	
o-Xylene	5.08	0.0250	5.00	ND	102	70-130	5.93	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	6.36	23	
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130	6.22	26	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540134-BLK1)

Prepared: 10/03/25 Analyzed: 10/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.78		8.00		110	70-130			

LCS (2540134-BS2)

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			

Matrix Spike (2540134-MS2)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		107	70-130			

Matrix Spike Dup (2540134-MSD2)

Source: E510034-24

Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	1.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540126-BLK1)

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

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

LCS (2540126-BS1)

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

Diesel Range Organics (C10-C28)	258	25.0	250		103	66-144			
Surrogate: n-Nonane	48.3		50.0		96.7	61-141			

Matrix Spike (2540126-MS1)

Source: E510033-06

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

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

Matrix Spike Dup (2540126-MSD1)

Source: E510033-06

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

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	1.48	20	
Surrogate: n-Nonane	51.0		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:34:23AM
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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 (2540128-BLK1)

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

Chloride ND 20.0

LCS (2540128-BS1)

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

Chloride 255 20.0 250 102 90-110

Matrix Spike (2540128-MS1)

Source: E510032-03

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

Chloride 255 20.0 250 ND 102 80-120

Matrix Spike Dup (2540128-MSD1)

Source: E510032-03

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

Chloride 257 20.0 250 ND 103 80-120 0.873 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/25 08:34
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510033		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	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
9:30	10/1/2025	Soil	1	SS09A - 0'		1								x					
9:33	10/1/2025	Soil	1	SS09A - 1'		2								x					
9:37	10/1/2025	Soil	1	SS09B - 0'		3								x					
9:43	10/1/2025	Soil	1	SS09B - 1'		4								x					
9:48	10/1/2025	Soil	1	SS10 - 0'		5								x					
9:50	10/1/2025	Soil	1	SS10 - 1'		6								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: <input checked="" type="radio"/> Y <input type="radio"/> N			
<i>Michelle Gonzalez</i>				10/2/25		7:11		<i>Michelle Gonzalez</i>				10-2-25		0711					
<i>Michelle Gonzalez</i>				10-2-25		1500		<i>Marissa Gonzalez</i>				10-2-25		1500					
<i>Marissa Gonzalez</i>				10-2-25		1900		<i>Andrew Musso</i>				10-2-25		1900					
<i>Andrew Musso</i>				10-2-25		2330		<i>Caitlin Han</i>				10-3-25		700					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 10/3/2025 9:39:48AM

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: 10/03/25 07:00	Work Order ID: E510033
Phone: (972) 371-5200	Date Logged In: 10/02/25 15:33	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 10/09/25 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: Santa Fe Exploration TB

Work Order: E510189

Job Number: 23003-0002

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

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: 10/24/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510189
Date Received: 10/20/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS11-0'	E510189-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS12-0'	E510189-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS13-0'	E510189-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS11-0'

E510189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2543007	
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2543007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2543003	
Diesel Range Organics (C10-C28)	33.8	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	77.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		86.3 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2543005	
Chloride	1120	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS12-0'

E510189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	31.9	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	76.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		85.7 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	849	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS13-0'

E510189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		87.5 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	325	20.0	1	10/20/25	10/20/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

LCS (2543007-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	3.96	0.0250	5.00		79.1	70-130			
Ethylbenzene	3.98	0.0250	5.00	0.0404	79.5	70-130			
Toluene	3.94	0.0250	5.00	ND	78.8	70-130			
o-Xylene	4.03	0.0250	5.00	0.0417	80.6	70-130			
p,m-Xylene	8.08	0.0500	10.0	0.0985	80.8	70-130			
Total Xylenes	12.1	0.0250	15.0	0.140	80.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

Matrix Spike (2543007-MS1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.76	0.0250	5.00	ND	95.2	70-130			
Ethylbenzene	4.87	0.0250	5.00	0.0404	96.6	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	5.02	0.0250	5.00	0.0417	99.6	70-130			
p,m-Xylene	9.91	0.0500	10.0	0.0985	98.1	70-130			
Total Xylenes	14.9	0.0250	15.0	0.140	98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.46		8.00		118	70-130			

Matrix Spike Dup (2543007-MSD1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.87	0.0250	5.00	ND	97.4	70-130	2.23	27	
Ethylbenzene	4.96	0.0250	5.00	0.0404	98.3	70-130	1.80	26	
Toluene	4.86	0.0250	5.00	ND	97.3	70-130	1.75	20	
o-Xylene	5.13	0.0250	5.00	0.0417	102	70-130	2.12	25	
p,m-Xylene	10.1	0.0500	10.0	0.0985	99.8	70-130	1.67	23	
Total Xylenes	15.2	0.0250	15.0	0.140	100	70-130	1.82	26	
Surrogate: 4-Bromochlorobenzene-PID	9.55		8.00		119	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

LCS (2543007-BS2)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike (2543007-MS2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2543007-MSD2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	67.3	20.0	50.0	ND	135	70-130	26.3	20	M6, R3
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543003-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.4		50.0		86.9	61-141			

LCS (2543003-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.0	66-144			
Surrogate: n-Nonane	43.4		50.0		86.7	61-141			

Matrix Spike (2543003-MS1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2550	25.0	250	2130	169	56-156			M4
Surrogate: n-Nonane	44.7		50.0		89.5	61-141			

Matrix Spike Dup (2543003-MSD1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2950	25.0	250	2130	328	56-156	14.5	20	M4
Surrogate: n-Nonane	44.5		50.0		88.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543005-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride ND 20.0

LCS (2543005-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2543005-MS1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 590 100 250 322 107 80-120

Matrix Spike Dup (2543005-MSD1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 588 100 250 322 106 80-120 0.346 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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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.
- 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.
- 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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510189		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	TEEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
920	10/16/2025	S	1	SS11 - 0'		1								X						
922	10/16/2025	S	1	SS12 - 0'		2								X						
924	10/16/2025	S	1	SS13 - 0'		3								X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmcauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: Y/N														
<i>Jarad McCauley</i>	10-17-25	0711	<i>Michelle Gonzales</i>	10-17-25	0701															
<i>Michelle Gonzales</i>	10-17-25	1500	<i>Marissa Gonzales</i>	10-17-25	1500															
<i>Marissa Gonzales</i>	10-17-25	1915	<i>Andrew Musso</i>	10-17-25	1915															
<i>Andrew Musso</i>	10-17-25	2315	<i>Noe Esp</i>	10-20-25	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.																				

Envirotech Analytical Laboratory

Printed: 10/20/2025 8:46:51AM

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: 10/20/25 06:30	Work Order ID: E510189
Phone: (972) 371-5200	Date Logged In: 10/17/25 16:13	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 10/24/25 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Comments/Resolution

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E506122

Job Number: 23003-0002

Received: 6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/20/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506122
Date Received: 6/16/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/20/25 07:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-6'	E506122-01A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH01-8'	E506122-02A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH02-1'	E506122-03A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH03-2'	E506122-04A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH01-6'
E506122-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>						
		94.8 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	1200	40.0	2	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH01-8'
E506122-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>		96.4 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	706	20.0	1	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH02-1'
E506122-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>		98.1 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	99.3	20.0	1	06/17/25	06/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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BH03-2'
E506122-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2525015
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	06/16/25	06/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2525052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/18/25	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	06/17/25	06/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2525044
Chloride	ND	20.0	1	06/17/25	06/17/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525015-BLK1)

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

LCS (2525015-BS1)

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike (2525015-MS1)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.97	0.0250	5.00	ND	99.5	70-130			
Ethylbenzene	4.90	0.0250	5.00	ND	98.1	70-130			
Toluene	4.94	0.0250	5.00	ND	98.7	70-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	70-130			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike Dup (2525015-MSD1)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Benzene	4.81	0.0250	5.00	ND	96.2	70-130	3.36	27	
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130	2.72	26	
Toluene	4.79	0.0250	5.00	ND	95.7	70-130	3.07	20	
o-Xylene	4.78	0.0250	5.00	ND	95.6	70-130	2.52	25	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	70-130	2.33	23	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	70-130	2.39	26	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525015-BLK1)

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		8.00		102	70-130			

LCS (2525015-BS2)

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike (2525015-MS2)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

Matrix Spike Dup (2525015-MSD2)

Source: E506122-03

Prepared: 06/16/25 Analyzed: 06/18/25

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.7	70-130	3.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525052-BLK1)

Prepared: 06/17/25 Analyzed: 06/17/25

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

LCS (2525052-BS1)

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	245	25.0	250		97.8	66-144			
Surrogate: <i>n</i> -Nonane	47.6		50.0		95.1	61-141			

Matrix Spike (2525052-MS1)

Source: E506114-01

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	300	25.0	250	59.7	96.3	56-156			
Surrogate: <i>n</i> -Nonane	48.9		50.0		97.8	61-141			

Matrix Spike Dup (2525052-MSD1)

Source: E506114-01

Prepared: 06/17/25 Analyzed: 06/17/25

Diesel Range Organics (C10-C28)	305	25.0	250	59.7	98.0	56-156	1.40	20	
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.1	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2025 7:37:09AM
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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 (2525044-BLK1)

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride ND 20.0

LCS (2525044-BS1)

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 250 20.0 250 100 90-110

Matrix Spike (2525044-MS1)

Source: E506134-01

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 250 20.0 250 ND 99.8 80-120

Matrix Spike Dup (2525044-MSD1)

Source: E506134-01

Prepared: 06/17/25 Analyzed: 06/17/25

Chloride 249 20.0 250 ND 99.8 80-120 0.0393 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/20/25 07:37
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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.



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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E5060122		23003-0022					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Chloride 300.0	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
10:43	6/12/2025	Soil	1	BH01 - 6'		1								X					
12:25	6/12/2025	Soil	1	BH01 - 8'		2								X					
11:00	6/12/2025	Soil	1	BH02 - 1'		3								X					
11:13	6/12/2025	Soil	1	BH03 - 2'		4								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: <input checked="" type="radio"/> Y <input type="radio"/> N													
<i>Israel Estrella</i>	6/13/25	7:11	<i>Michelle Gonzales</i>	6-13-25	0711														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Michelle Gonzales</i>	6-14-25	0240	<i>Caitlynn Mann</i>	6-16-25	730														
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: 6/16/2025 9:38:35AM

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: 06/16/25 07:30	Work Order ID: E506122
Phone: (972) 371-5200	Date Logged In: 06/13/25 15:47	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 06/20/25 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Work Order: E506180

Job Number: 23003-0002

Received: 6/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/26/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/26/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506180
Date Received: 6/23/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2025 6:45:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/26/25 13:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-0'	E506180-01A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-2'	E506180-02A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-4'	E506180-03A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-6'	E506180-04A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.
BH04-8'	E506180-05A	Soil	06/19/25	06/23/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-0'
E506180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2525110	
Benzene	2.29	0.125	5	06/20/25	06/23/25	
Ethylbenzene	31.5	0.125	5	06/20/25	06/23/25	
Toluene	31.5	0.125	5	06/20/25	06/23/25	
o-Xylene	16.3	0.125	5	06/20/25	06/23/25	
p,m-Xylene	36.0	0.250	5	06/20/25	06/23/25	
Total Xylenes	52.2	0.125	5	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2525110	
Gasoline Range Organics (C6-C10)	730	100	5	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		115 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2526028	
Diesel Range Organics (C10-C28)	19600	500	20	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	7120	1000	20	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>		309 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2526010	
Chloride	162	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-2'
E506180-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	21.2	0.250	10	06/20/25	06/23/25	
Ethylbenzene	41.2	0.250	10	06/20/25	06/23/25	
Toluene	94.8	0.250	10	06/20/25	06/23/25	
o-Xylene	18.0	0.250	10	06/20/25	06/23/25	
p,m-Xylene	43.4	0.500	10	06/20/25	06/23/25	
Total Xylenes	61.4	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1010	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	10100	250	10	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	3310	500	10	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		320 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1030	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-4'
E506180-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	17.8	0.250	10	06/20/25	06/23/25	
Ethylbenzene	62.0	0.250	10	06/20/25	06/23/25	
Toluene	110	0.250	10	06/20/25	06/23/25	
o-Xylene	26.9	0.250	10	06/20/25	06/23/25	
p,m-Xylene	69.9	0.500	10	06/20/25	06/23/25	
Total Xylenes	96.9	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1660	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		118 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	9830	250	10	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	2930	500	10	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		334 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1070	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-6'
E506180-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2525110
Benzene	28.6	0.250	10	06/20/25	06/23/25	
Ethylbenzene	69.6	0.250	10	06/20/25	06/23/25	
Toluene	144	0.250	10	06/20/25	06/23/25	
o-Xylene	28.9	0.250	10	06/20/25	06/23/25	
p,m-Xylene	76.6	0.500	10	06/20/25	06/23/25	
Total Xylenes	106	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	1890	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	10500	500	20	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	3660	1000	20	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>		395 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2526010
Chloride	806	20.0	1	06/24/25	06/24/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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BH04-8'
E506180-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Benzene	13.3	0.250	10	06/20/25	06/23/25	
Ethylbenzene	24.4	0.250	10	06/20/25	06/23/25	
Toluene	56.3	0.250	10	06/20/25	06/23/25	
o-Xylene	10.1	0.250	10	06/20/25	06/23/25	
p,m-Xylene	26.2	0.500	10	06/20/25	06/23/25	
Total Xylenes	36.2	0.250	10	06/20/25	06/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2525110
Gasoline Range Organics (C6-C10)	555	200	10	06/20/25	06/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	06/20/25	06/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526028
Diesel Range Organics (C10-C28)	3120	50.0	2	06/23/25	06/25/25	T9
Oil Range Organics (C28-C36)	846	100	2	06/23/25	06/25/25	
<i>Surrogate: n-Nonane</i>						
		190 %	61-141	06/23/25	06/25/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2526010
Chloride	1120	20.0	1	06/24/25	06/24/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

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	8.19		8.00		102	70-130			

LCS (2525110-BS1)

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2525110-MS1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	27.8	0.125	25.0	2.29	102	70-130			
Ethylbenzene	56.7	0.125	25.0	31.5	101	70-130			
Toluene	57.8	0.125	25.0	31.5	105	70-130			
o-Xylene	41.2	0.125	25.0	16.3	99.6	70-130			
p,m-Xylene	86.2	0.250	50.0	36.0	101	70-130			
Total Xylenes	127	0.125	75.0	52.2	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	49.4		40.0		123	70-130			

Matrix Spike Dup (2525110-MSD1)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Benzene	30.2	0.125	25.0	2.29	112	70-130	8.06	27	
Ethylbenzene	60.9	0.125	25.0	31.5	118	70-130	7.03	26	
Toluene	61.4	0.125	25.0	31.5	120	70-130	6.02	20	
o-Xylene	44.5	0.125	25.0	16.3	113	70-130	7.82	25	
p,m-Xylene	92.8	0.250	50.0	36.0	114	70-130	7.34	23	
Total Xylenes	137	0.125	75.0	52.2	113	70-130	7.50	26	
Surrogate: 4-Bromochlorobenzene-PID	50.3		40.0		126	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525110-BLK1)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			

LCS (2525110-BS2)

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			

Matrix Spike (2525110-MS2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1070	100	250	730	135	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	48.9		40.0		122	70-130			

Matrix Spike Dup (2525110-MSD2)

Source: E506180-01

Prepared: 06/20/25 Analyzed: 06/23/25

Gasoline Range Organics (C6-C10)	1040	100	250	730	124	70-130	2.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	50.1		40.0		125	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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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 (2526028-BLK1)

Prepared: 06/23/25 Analyzed: 06/24/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.8		50.0		99.6	61-141			

LCS (2526028-BS1)

Prepared: 06/23/25 Analyzed: 06/24/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: n-Nonane	47.4		50.0		94.7	61-141			S5

Matrix Spike (2526028-MS1)

Source: E506183-05

Prepared: 06/23/25 Analyzed: 06/25/25

Diesel Range Organics (C10-C28)	4780	25.0	250	4340	178	56-156			M4
Surrogate: n-Nonane	76.0		50.0		152	61-141			S5

Matrix Spike Dup (2526028-MSD1)

Source: E506183-05

Prepared: 06/23/25 Analyzed: 06/25/25

Diesel Range Organics (C10-C28)	5360	25.0	250	4340	410	56-156	11.4	20	M4
Surrogate: n-Nonane	75.0		50.0		150	61-141			S5



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/26/2025 1:39:01PM
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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 (2526010-BLK1)

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride ND 20.0

LCS (2526010-BS1)

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 254 20.0 250 101 90-110

Matrix Spike (2526010-MS1)

Source: E506183-02

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 268 20.0 250 ND 107 80-120

Matrix Spike Dup (2526010-MSD1)

Source: E506183-02

Prepared: 06/24/25 Analyzed: 06/24/25

Chloride 270 20.0 250 ND 108 80-120 0.821 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/26/25 13:39
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- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- 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: <i>Santa Fe Exploration TB</i>		Address: 3122 National Parks Hwy		<i>E5000180</i>	<i>23003002</i>				X	X			
Project Manager: Ashley Giovengo		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055									
Address: 3122 National Parks Hwy		Email: <i>agiovengo@ensolum.com</i>		Miscellaneous:									
City, State, Zip: Carlsbad NM, 88220													
Phone: 575-988-0055													
Email: <i>agiovengo@ensolum.com</i>													

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	
9:44	6/19/2025	Soil	1	BH04 - 0'		1								X					
10:05	6/19/2025	Soil	1	BH04 - 2'		2								X					
10:30	6/19/2025	Soil	1	BH04 - 4'		3								X					
10:50	6/19/2025	Soil	1	BH04 - 6'		4								X					
11:12	6/19/2025	Soil	1	BH04 - 8'		5								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: <i>Gus Sanchez & Israel Estrella</i>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	<i>6/20/25</i>	<i>7:15</i>	<i>[Signature]</i>	<i>6-20-25</i>	<i>1115</i>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	<i>6-20-25</i>	<i>1045</i>	<i>[Signature]</i>	<i>6/20/25</i>	<i>1720</i>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	<i>6/20/25</i>	<i>1235am</i>	<i>[Signature]</i>	<i>6-23-25</i>	<i>1045</i>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

Envirotech Analytical Laboratory

Printed: 6/23/2025 11:54:56AM

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: 06/23/25 06:45 Work Order ID: E506180
Phone: (972) 371-5200 Date Logged In: 06/20/25 13:20 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 06/27/25 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: Santa Fe Exploration TB

Work Order: E506211

Job Number: 23003-0002

Received: 6/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/30/25

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: 6/30/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506211
Date Received: 6/24/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/24/2025 7:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/30/25 13:59
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04-10'	E506211-01A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-12'	E506211-02A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-14'	E506211-03A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH04-16'	E506211-04A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.
BH05-0'	E506211-05A	Soil	06/20/25	06/24/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-10'
E506211-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	1.11	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	5.37	0.0250	1	06/24/25	06/28/25	
Toluene	8.96	0.0250	1	06/24/25	06/28/25	
o-Xylene	2.44	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	5.77	0.0500	1	06/24/25	06/28/25	
Total Xylenes	8.21	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	115	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	765	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	266	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	200	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-12'

E506211-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.0449	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.531	0.0250	1	06/24/25	06/28/25	
Toluene	0.355	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.266	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	0.746	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.01	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	310	25.0	1	06/25/25	06/29/25	
Oil Range Organics (C28-C36)	126	50.0	1	06/25/25	06/29/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	06/25/25	06/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	191	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-14'

E506211-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.0512	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.560	0.0250	1	06/24/25	06/28/25	
Toluene	0.556	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.269	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	0.762	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.03	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	400	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	161	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	335	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH04-16'

E506211-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	0.234	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	0.932	0.0250	1	06/24/25	06/28/25	
Toluene	1.45	0.0250	1	06/24/25	06/28/25	
o-Xylene	0.391	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	1.10	0.0500	1	06/24/25	06/28/25	
Total Xylenes	1.49	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	22.0	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	63.0	25.0	1	06/25/25	06/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/25/25	06/26/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	06/25/25	06/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	257	20.0	1	06/26/25	06/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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BH05-0'
E506211-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Benzene	7.27	0.125	5	06/24/25	06/28/25	
Ethylbenzene	95.7	0.125	5	06/24/25	06/28/25	
Toluene	108	0.125	5	06/24/25	06/28/25	
o-Xylene	48.8	0.125	5	06/24/25	06/28/25	
p,m-Xylene	99.0	0.250	5	06/24/25	06/28/25	
Total Xylenes	148	0.125	5	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2526046
Gasoline Range Organics (C6-C10)	1450	100	5	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	06/24/25	06/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526101
Diesel Range Organics (C10-C28)	42100	500	20	06/25/25	06/29/25	T9
Oil Range Organics (C28-C36)	11700	1000	20	06/25/25	06/29/25	
<i>Surrogate: n-Nonane</i>		842 %	61-141	06/25/25	06/29/25	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2526107
Chloride	ND	20.0	1	06/26/25	06/27/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526046-BLK1)

Prepared: 06/24/25 Analyzed: 06/28/25

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	8.24		8.00		103	70-130			

LCS (2526046-BS1)

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.52	0.0250	5.00		110	70-130			
Ethylbenzene	5.37	0.0250	5.00		107	70-130			
Toluene	5.47	0.0250	5.00		109	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

Matrix Spike (2526046-MS1)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.15	0.0250	5.00	0.0512	102	70-130			
Ethylbenzene	6.02	0.0250	5.00	0.560	109	70-130			
Toluene	6.06	0.0250	5.00	0.556	110	70-130			
o-Xylene	5.41	0.0250	5.00	0.269	103	70-130			
p,m-Xylene	11.3	0.0500	10.0	0.762	105	70-130			
Total Xylenes	16.7	0.0250	15.0	1.03	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.63		8.00		108	70-130			

Matrix Spike Dup (2526046-MSD1)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Benzene	5.53	0.0250	5.00	0.0512	110	70-130	7.08	27	
Ethylbenzene	6.39	0.0250	5.00	0.560	117	70-130	5.93	26	
Toluene	6.42	0.0250	5.00	0.556	117	70-130	5.81	20	
o-Xylene	5.80	0.0250	5.00	0.269	111	70-130	6.86	25	
p,m-Xylene	12.0	0.0500	10.0	0.762	112	70-130	6.27	23	
Total Xylenes	17.8	0.0250	15.0	1.03	112	70-130	6.46	26	
Surrogate: 4-Bromochlorobenzene-PID	8.69		8.00		109	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526046-BLK1)

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

LCS (2526046-BS2)

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike (2526046-MS2)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	81.5	20.0	50.0	ND	163	70-130			M6
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.4	70-130			

Matrix Spike Dup (2526046-MSD2)

Source: E506211-03

Prepared: 06/24/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	84.2	20.0	50.0	ND	168	70-130	3.34	20	M6
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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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 (2526101-BLK1)

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.4		50.0		125	61-141			

LCS (2526101-BS1)

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	273	25.0	250		109	66-144			
Surrogate: n-Nonane	49.0		50.0		97.9	61-141			

Matrix Spike (2526101-MS1)

Source: E506212-02

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156			
Surrogate: n-Nonane	49.2		50.0		98.5	61-141			

Matrix Spike Dup (2526101-MSD1)

Source: E506212-02

Prepared: 06/25/25 Analyzed: 06/26/25

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	5.02	20	
Surrogate: n-Nonane	51.9		50.0		104	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/30/2025 1:59:38PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526107-BLK1)

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride ND 20.0

LCS (2526107-BS1)

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 250 20.0 250 99.8 90-110

Matrix Spike (2526107-MS1)

Source: E506177-03

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 5360 200 250 5110 101 80-120

Matrix Spike Dup (2526107-MSD1)

Source: E506177-03

Prepared: 06/26/25 Analyzed: 06/26/25

Chloride 5390 200 250 5110 114 80-120 0.612 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/30/25 13:59
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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.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E506211		280030002					X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																	
Phone: 575-988-0055				Miscellaneous:																	
Email: agiovengo@ensolum.com																					
Sample Information																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 900.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Sample Temp	Remarks	SDWA	CWA	RCRA	
9:54	6/20/2025	Soil	1	BH04 - 10'		1								X		1.0					
10:35	6/20/2025	Soil	1	BH04 - 12'		2								X		2.3					
11:49	6/20/2025	Soil	1	BH04 - 14'		3								X		2.3					
14:09	6/20/2025	Soil	1	BH04 - 16'		4								X		1.2					
14:31	6/20/2025	Soil	1	BH05 - 0'		5								X		2.2					
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>Israel Estrella</i>	6/23/25	7:11	<i>Michelle Gonzales</i>	6-23-25	0711																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>Michelle Gonzales</i>	6-23-25	1545	<i>Monique Gonzales</i>	6-23-25	1545																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>Monique Gonzales</i>	6-23-25	1915	<i>John M.</i>	6-23-25	1915																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N															
<i>John M.</i>	6-23-25	2345	<i>Carlye Mann</i>	6-24-25	700																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 6/24/2025 9:30:06AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/24/25 07:00	Work Order ID: E506211
Phone: (972) 371-5200	Date Logged In: 06/23/25 15:47	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 06/30/25 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

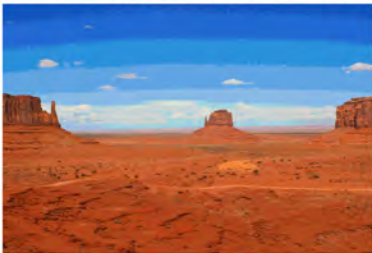
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E506226

Job Number: 23003-0002

Received: 6/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/1/25

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: 7/1/25



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

Project Name: Santa Fe Exploration TB
Workorder: E506226
Date Received: 6/25/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/25/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/01/25 15:15
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-2'	E506226-01A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH05-4'	E506226-02A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH05-6'	E506226-03A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-2'
E506226-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2526076	
Benzene	9.92	0.125	5	06/24/25	07/01/25	
Ethylbenzene	29.1	0.125	5	06/24/25	07/01/25	
Toluene	57.4	0.125	5	06/24/25	07/01/25	
o-Xylene	13.4	0.125	5	06/24/25	07/01/25	
p,m-Xylene	30.1	0.250	5	06/24/25	07/01/25	
Total Xylenes	43.5	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2526076	
Gasoline Range Organics (C6-C10)	441	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2526124	
Diesel Range Organics (C10-C28)	4810	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1490	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		133 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2526133	
Chloride	40.3	20.0	1	06/26/25	06/27/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-4'
E506226-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Benzene	7.25	0.125	5	06/24/25	07/01/25	
Ethylbenzene	27.6	0.125	5	06/24/25	07/01/25	
Toluene	49.2	0.125	5	06/24/25	07/01/25	
o-Xylene	12.7	0.125	5	06/24/25	07/01/25	
p,m-Xylene	28.4	0.250	5	06/24/25	07/01/25	
Total Xylenes	41.1	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Gasoline Range Organics (C6-C10)	386	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526124
Diesel Range Organics (C10-C28)	4590	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1520	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		136 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2526133
Chloride	ND	20.0	1	06/26/25	06/27/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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BH05-6'
E506226-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Benzene	5.57	0.125	5	06/24/25	07/01/25	
Ethylbenzene	15.9	0.125	5	06/24/25	07/01/25	
Toluene	30.7	0.125	5	06/24/25	07/01/25	
o-Xylene	7.25	0.125	5	06/24/25	07/01/25	
p,m-Xylene	16.1	0.250	5	06/24/25	07/01/25	
Total Xylenes	23.4	0.125	5	06/24/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526076
Gasoline Range Organics (C6-C10)	243	100	5	06/24/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	06/24/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2526124
Diesel Range Organics (C10-C28)	4790	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	1840	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		89.7 %	61-141	06/26/25	06/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2526133
Chloride	26.5	20.0	1	06/26/25	06/27/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526076-BLK1)

Prepared: 06/24/25 Analyzed: 06/27/25

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	8.13		8.00		102	70-130			

LCS (2526076-BS1)

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.14	0.0250	5.00		103	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	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	8.12		8.00		102	70-130			

Matrix Spike (2526076-MS1)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.24	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

Matrix Spike Dup (2526076-MSD1)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.44	0.0250	5.00	ND	109	70-130	0.380	27	
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130	0.0356	26	
Toluene	5.41	0.0250	5.00	ND	108	70-130	0.149	20	
o-Xylene	5.26	0.0250	5.00	ND	105	70-130	0.311	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	0.0797	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	0.156	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526076-BLK1)

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

LCS (2526076-BS2)

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike (2526076-MS2)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2526076-MSD2)

Source: E506225-01

Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130	1.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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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 (2526124-BLK1)

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.3		50.0		98.7	61-141			

LCS (2526124-BS1)

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	293	25.0	250		117	66-144			
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.3	61-141			

Matrix Spike (2526124-MS1)

Source: E506227-02

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156			
Surrogate: <i>n</i> -Nonane	49.0		50.0		98.0	61-141			

Matrix Spike Dup (2526124-MSD1)

Source: E506227-02

Prepared: 06/26/25 Analyzed: 06/30/25

Diesel Range Organics (C10-C28)	296	25.0	250	ND	118	56-156	1.07	20	
Surrogate: <i>n</i> -Nonane	47.5		50.0		94.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/1/2025 3:15:59PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526133-BLK1)

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride ND 20.0

LCS (2526133-BS1)

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 254 20.0 250 102 90-110

Matrix Spike (2526133-MS1)

Source: E506223-03

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 366 20.0 250 111 102 80-120

Matrix Spike Dup (2526133-MSD1)

Source: E506223-03

Prepared: 06/26/25 Analyzed: 06/27/25

Chloride 371 20.0 250 111 104 80-120 1.18 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/01/25 15:15
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E500220		230030002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information											Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N	
																	PWSID #				
																	Sample Temp			Remarks	
9:59	6/23/2025	Soil	1	BH05 - 2'			1								X					1.1	
10:35	6/23/2025	Soil	1	BH05 - 4'			2								X					2.2	
11:43	6/23/2025	Soil	1	BH05 - 6'			3								X					1.4	

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: Gus Sanchez & 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: O/N
<i>[Signature]</i>	6-24-25	07:15 am	Michelle Gonzales	6-24-25	0715	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzales	6-24-25	1320	Marissa Gonzales	6-24-25	1320	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Marissa Gonzales	6-24-25	1825	Carth M...	6-24-25	1825	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Carth M...	6-24-25	2300	Carth M...	6-25-25	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: 6/25/2025 9:21:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/25/25 08:00	Work Order ID: E506226
Phone: (972) 371-5200	Date Logged In: 06/24/25 14:36	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 07/01/25 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: Santa Fe Exploration TB

Work Order: E508334

Job Number: 23003-0002

Received: 9/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/8/25

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: 9/8/25

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



Project Name: Santa Fe Exploration TB
Workorder: E508334
Date Received: 9/2/2025 8:00:53AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/2/2025 8:00:53AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/08/25 09:07
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-8'	E508334-01A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-10'	E508334-02A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-15'	E508334-03A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-18'	E508334-04A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.
BH05-20'	E508334-05A	Soil	08/28/25	09/02/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-8'
E508334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	0.181	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	3.69	0.0250	1	09/02/25	09/03/25	
Toluene	4.32	0.0250	1	09/02/25	09/03/25	
o-Xylene	1.86	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	4.25	0.0500	1	09/02/25	09/03/25	
Total Xylenes	6.11	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	61.2	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	269	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	86.1	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>						
		99.9 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	ND	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-10'

E508334-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	0.228	0.0250	1	09/02/25	09/03/25	
Toluene	0.103	0.0250	1	09/02/25	09/03/25	
o-Xylene	0.157	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	0.376	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.6 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	36.3	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	ND	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-15'

E508334-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	65.1	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	154	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-18'

E508334-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.2 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	117	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	72.6	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		99.2 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	420	20.0	1	09/02/25	09/02/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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BH05-20'

E508334-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Benzene	ND	0.0250	1	09/02/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/02/25	09/03/25	
Toluene	ND	0.0250	1	09/02/25	09/03/25	
o-Xylene	ND	0.0250	1	09/02/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/02/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/02/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2536005
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/02/25	09/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2536001
Diesel Range Organics (C10-C28)	250	25.0	1	09/02/25	09/02/25	
Oil Range Organics (C28-C36)	141	50.0	1	09/02/25	09/02/25	
<i>Surrogate: n-Nonane</i>		99.7 %	61-141	09/02/25	09/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2536009
Chloride	390	20.0	1	09/02/25	09/02/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536005-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

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 (2536005-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Benzene	4.50	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.5	70-130			
Toluene	4.48	0.0250	5.00		89.6	70-130			
o-Xylene	4.47	0.0250	5.00		89.4	70-130			
p,m-Xylene	8.87	0.0500	10.0		88.7	70-130			
Total Xylenes	13.3	0.0250	15.0		88.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.76		8.00		84.4	70-130			

Matrix Spike (2536005-MS1)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Benzene	5.25	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.16	0.0250	5.00	ND	103	70-130			
Toluene	5.25	0.0250	5.00	ND	105	70-130			
o-Xylene	5.12	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.76		8.00		84.5	70-130			

Matrix Spike Dup (2536005-MSD1)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Benzene	5.23	0.0250	5.00	ND	105	70-130	0.341	27	
Ethylbenzene	5.14	0.0250	5.00	ND	103	70-130	0.230	26	
Toluene	5.23	0.0250	5.00	ND	105	70-130	0.369	20	
o-Xylene	5.10	0.0250	5.00	ND	102	70-130	0.295	25	
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130	0.313	23	
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130	0.307	26	
Surrogate: 4-Bromochlorobenzene-PID	6.82		8.00		85.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536005-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

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

LCS (2536005-BS2)

Prepared: 09/02/25 Analyzed: 09/02/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2536005-MS2)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

Matrix Spike Dup (2536005-MSD2)

Source: E508334-03

Prepared: 09/02/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130	6.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536001-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	49.1		50.0		98.1	61-141			

LCS (2536001-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	266	25.0	250		107	66-144			
Surrogate: <i>n-Nonane</i>	48.1		50.0		96.2	61-141			

Matrix Spike (2536001-MS1)

Source: E508336-01

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: <i>n-Nonane</i>	48.7		50.0		97.3	61-141			

Matrix Spike Dup (2536001-MSD1)

Source: E508336-01

Prepared: 09/02/25 Analyzed: 09/02/25

Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	56-156	16.0	20	
Surrogate: <i>n-Nonane</i>	58.4		50.0		117	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/8/2025 9:07:27AM
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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 (2536009-BLK1)

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride ND 20.0

LCS (2536009-BS1)

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 257 20.0 250 103 90-110

Matrix Spike (2536009-MS1)

Source: E508337-01

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 371 20.0 250 125 98.3 80-120

Matrix Spike Dup (2536009-MSD1)

Source: E508337-01

Prepared: 09/02/25 Analyzed: 09/02/25

Chloride 377 20.0 250 125 101 80-120 1.62 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/08/25 09:07
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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 Client: Matador Project Name: Santa Fe Exploration TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Invoice Information Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab Use Only Lab WO# E508334 Job Number 23603.0002				TAT 1D 2D 3D Std X				State NM CO UT TX X			
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 BGDQC - NM BGDQC - TX												SDWA CWA RCRA							
Compliance Y or N												PWSID #							
Sample Information												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	BGDQC - NM	BGDQC - TX	Sample Temp	Remarks		
1014	08/28/25	S	1	BH05-8'		1								X		5.4			
1015		S	1	BH05-10'		2								X		5.3			
1020		S	1	BH05-15'		3								X		4.9			
1021		S	1	BH05-18'		4								X		4.9			
1021		S	1	BH05-20'		5								X		4.8			
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
		S	1											X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Higinio Gonzalez, Eric Plugge																			
Relinquished by: (Signature) <i>A.M. Musso</i>				Date 08/29/25		Time 7:11		Received by: (Signature) <i>Marissa Gonzalez</i>				Date 8-29-25		Time 07:11		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature) <i>Marissa Gonzalez</i>				Date 8-29-25		Time 1230		Received by: (Signature) <i>Andrew Musso</i>				Date 8.30.25		Time 1230					
Relinquished by: (Signature) <i>Andrew Musso</i>				Date 8.30.25		Time 1915		Received by: (Signature) <i>Caitlynn</i>				Date 9-7-25		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.																			

Envirotech Analytical Laboratory

Printed: 9/2/2025 9:28:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 09/02/25 08:00	Work Order ID: E508334
Phone: (972) 371-5200	Date Logged In: 08/29/25 14:21	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 09/08/25 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: Santa Fe Exploration TB

Work Order: E510189

Job Number: 23003-0002

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

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: 10/24/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510189
Date Received: 10/20/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS11-0'	E510189-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS12-0'	E510189-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SS13-0'	E510189-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS11-0'

E510189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	33.8	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	77.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>						
		86.3 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	1120	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS12-0'

E510189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	31.9	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	76.9	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		85.7 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	849	20.0	1	10/20/25	10/20/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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SS13-0'

E510189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Benzene	ND	0.0250	1	10/20/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/20/25	
Toluene	ND	0.0250	1	10/20/25	10/20/25	
o-Xylene	ND	0.0250	1	10/20/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	10/20/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		87.5 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543005
Chloride	325	20.0	1	10/20/25	10/20/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

LCS (2543007-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	3.96	0.0250	5.00		79.1	70-130			
Ethylbenzene	3.98	0.0250	5.00	0.0404	79.5	70-130			
Toluene	3.94	0.0250	5.00	ND	78.8	70-130			
o-Xylene	4.03	0.0250	5.00	0.0417	80.6	70-130			
p,m-Xylene	8.08	0.0500	10.0	0.0985	80.8	70-130			
Total Xylenes	12.1	0.0250	15.0	0.140	80.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

Matrix Spike (2543007-MS1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.76	0.0250	5.00	ND	95.2	70-130			
Ethylbenzene	4.87	0.0250	5.00	0.0404	96.6	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	5.02	0.0250	5.00	0.0417	99.6	70-130			
p,m-Xylene	9.91	0.0500	10.0	0.0985	98.1	70-130			
Total Xylenes	14.9	0.0250	15.0	0.140	98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.46		8.00		118	70-130			

Matrix Spike Dup (2543007-MSD1)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Benzene	4.87	0.0250	5.00	ND	97.4	70-130	2.23	27	
Ethylbenzene	4.96	0.0250	5.00	0.0404	98.3	70-130	1.80	26	
Toluene	4.86	0.0250	5.00	ND	97.3	70-130	1.75	20	
o-Xylene	5.13	0.0250	5.00	0.0417	102	70-130	2.12	25	
p,m-Xylene	10.1	0.0500	10.0	0.0985	99.8	70-130	1.67	23	
Total Xylenes	15.2	0.0250	15.0	0.140	100	70-130	1.82	26	
Surrogate: 4-Bromochlorobenzene-PID	9.55		8.00		119	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543007-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

LCS (2543007-BS2)

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike (2543007-MS2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2543007-MSD2)

Source: E510199-02

Prepared: 10/20/25 Analyzed: 10/20/25

Gasoline Range Organics (C6-C10)	67.3	20.0	50.0	ND	135	70-130	26.3	20	M6, R3
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543003-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.9	61-141			

LCS (2543003-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.0	66-144			
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.7	61-141			

Matrix Spike (2543003-MS1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2550	25.0	250	2130	169	56-156			M4
Surrogate: <i>n</i> -Nonane	44.7		50.0		89.5	61-141			

Matrix Spike Dup (2543003-MSD1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2950	25.0	250	2130	328	56-156	14.5	20	M4
Surrogate: <i>n</i> -Nonane	44.5		50.0		88.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2025 9:28:40AM
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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 (2543005-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride ND 20.0

LCS (2543005-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2543005-MS1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 590 100 250 322 107 80-120

Matrix Spike Dup (2543005-MSD1)

Source: E510200-03

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 588 100 250 322 106 80-120 0.346 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/25 09:28
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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.
- 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.
- 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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510189		23003-0002						X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
920	10/16/2025	S	1	SS11 - 0'		1								X						
922	10/16/2025	S	1	SS12 - 0'		2								X						
924	10/16/2025	S	1	SS13 - 0'		3								X						

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmcauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley						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>Jarad McCauley</i>	10-17-25	0711	<i>Michelle Gonzales</i>	10-17-25	0701						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Michelle Gonzales</i>	10-17-25	1500	<i>Marissa Gonzales</i>	10-17-25	1500						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Marissa Gonzales</i>	10-17-25	1915	<i>Andrew Musso</i>	10-17-25	1915						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Andrew Musso</i>	10-17-25	2315	<i>Noe Esp</i>	10-20-25	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.

Envirotech Analytical Laboratory

Printed: 10/20/2025 8:46:51AM

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: 10/20/25 06:30 Work Order ID: E510189
Phone: (972) 371-5200 Date Logged In: 10/17/25 16:13 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 10/24/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Work Order: E509334

Job Number: 23003-0002

Received: 10/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/25

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: 10/7/25

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

Project Name: Santa Fe Exploration TB
Workorder: E509334
Date Received: 10/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 09:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-4'	E509334-01A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS02-4'	E509334-02A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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FS01-4'

E509334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540063
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540063
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2540058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: TP		Batch: 2540075
Chloride	932	20.0	1	10/01/25	10/01/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
---	---	---

FS02-4'

E509334-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540063
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540063
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2540058
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2540075
Chloride	550	20.0	1	10/01/25	10/01/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540063-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

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	8.32		8.00		104	70-130			

LCS (2540063-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

Matrix Spike (2540063-MS1)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	5.28	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130			
Toluene	5.26	0.0250	5.00	ND	105	70-130			
o-Xylene	5.22	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike Dup (2540063-MSD1)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	4.84	0.0250	5.00	ND	96.8	70-130	8.69	27	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	70-130	8.46	26	
Toluene	4.84	0.0250	5.00	ND	96.7	70-130	8.40	20	
o-Xylene	4.80	0.0250	5.00	ND	96.1	70-130	8.24	25	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	70-130	8.27	23	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	70-130	8.26	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540063-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.8	70-130			

LCS (2540063-BS2)

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			

Matrix Spike (2540063-MS2)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

Matrix Spike Dup (2540063-MSD2)

Source: E509333-01

Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.7	70-130	4.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540058-BLK1)

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.6		50.0		101	61-141			

LCS (2540058-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			

Matrix Spike (2540058-MS1)

Source: E509338-05

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: <i>n</i> -Nonane	51.4		50.0		103	61-141			

Matrix Spike Dup (2540058-MSD1)

Source: E509338-05

Prepared: 10/01/25 Analyzed: 10/01/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156	1.71	20	
Surrogate: <i>n</i> -Nonane	51.0		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 9:45:36AM
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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 (2540075-BLK1)

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride ND 20.0

LCS (2540075-BS1)

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 253 20.0 250 101 90-110

Matrix Spike (2540075-MS1)

Source: E509333-06

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 4200 40.0 250 3870 132 80-120 M4

Matrix Spike Dup (2540075-MSD1)

Source: E509333-06

Prepared: 10/01/25 Analyzed: 10/01/25

Chloride 4070 40.0 250 3870 79.4 80-120 3.19 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 09:45
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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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E509334		23003-0002					x	x																																																									
Project Manager: Ashley Giovengo				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/ORO 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>Compliance</td> <td>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td colspan="8"></td> <td>PWSID #</td> <td colspan="4"></td> </tr> <tr> <td>Time Sampled</td> <td>Date Sampled</td> <td>Matrix</td> <td>No. of Containers</td> <td>Sample ID</td> <td>Field Filter</td> <td>Lab Number</td> <td>Sample Temp</td> <td colspan="8">Remarks</td> </tr> </thead> </table>								Analysis and Method								EPA Program				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		Compliance	Y	or	N									PWSID #					Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	Sample Temp	Remarks							
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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																																																																									
8:36	9/26/2025	Soil	1	FS01 - 4'		1	1.2																																																																		
8:39	9/26/2025	Soil	1	FS02 - 4'		2	2.0																																																																		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																																																																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																																																																									
Sampled by: 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: <input checked="" type="radio"/> Y <input type="radio"/> N																																																															
Michelle Gonzales			9/29/25	7:11	Michelle Gonzales			9-30-25	0700																																																																
Michelle Gonzales			9-30-25	1500	Michelle Gonzales			9-30-25	1500																																																																
Andrew Musso			9-30-25	1940	Andrew Musso			9-30-25	1940																																																																
Andrew Musso			10-1-25	0115	Caitlin Han			10-1-25	730																																																																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																																																									
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																																									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																																									

Envirotech Analytical Laboratory

Printed: 10/1/2025 9:49:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/01/25 07:30 Work Order ID: E509334
Phone: (972) 371-5200 Date Logged In: 09/30/25 15:58 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 10/07/25 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.

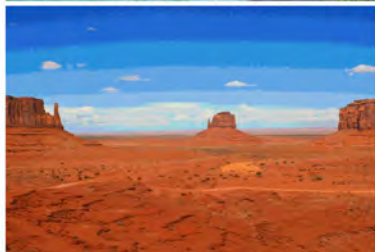
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Santa Fe Exploration TB

Work Order: E510015

Job Number: 23003-0002

Received: 10/2/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/8/25

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: 10/8/25



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

Project Name: Santa Fe Exploration TB
Workorder: E510015
Date Received: 10/2/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/2/2025 8:00:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Santa Fe Exploration TB

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/08/25 13:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03-1'	E510015-01A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS04-1'	E510015-02A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS05-2'	E510015-03A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS06-2'	E510015-04A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS07-2'	E510015-05A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS08-0.5'	E510015-06A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS09-4'	E510015-07A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS10-4'	E510015-08A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS11-4'	E510015-09A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS12-4'	E510015-10A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS13-4'	E510015-11A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW01-0-4'	E510015-12A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW02-0-4'	E510015-13A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW03-0-4'	E510015-14A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW04-0-4'	E510015-15A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW05-0-1'	E510015-16A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW06-0-1'	E510015-17A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW07-0-2'	E510015-18A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW08-0-2'	E510015-19A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW09-0-4'	E510015-20A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW10-0-4'	E510015-21A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW11-0-4'	E510015-22A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW12-0-4'	E510015-23A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS03-1'

E510015-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Benzene	0.0287	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0413	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540095	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.2 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2540122	
Chloride	183	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS04-1'

E510015-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0274	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0443	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.8 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	64.1	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS05-2'

E510015-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0347	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0544	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	592	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS06-2'

E510015-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0335	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.4 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		93.0 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	288	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS07-2'

E510015-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	0.0252	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.0 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		97.1 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	107	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS08-0.5'

E510015-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0460	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		112 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	31.6	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		96.6 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	2180	40.0	2	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS09-4'

E510015-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540107
Benzene	0.938	0.500	20	10/02/25	10/04/25	
Ethylbenzene	16.4	0.500	20	10/02/25	10/04/25	
Toluene	17.4	0.500	20	10/02/25	10/04/25	
o-Xylene	8.40	0.500	20	10/02/25	10/04/25	
p,m-Xylene	19.3	1.00	20	10/02/25	10/04/25	
Total Xylenes	27.7	0.500	20	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	400	20	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	7210	250	10	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	2550	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		197 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2540122
Chloride	24.8	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS10-4'

E510015-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	3.45	0.125	5	10/02/25	10/04/25	
Ethylbenzene	29.5	0.125	5	10/02/25	10/04/25	
Toluene	36.7	0.125	5	10/02/25	10/04/25	
o-Xylene	14.9	0.125	5	10/02/25	10/04/25	
p,m-Xylene	34.2	0.250	5	10/02/25	10/04/25	
Total Xylenes	49.1	0.125	5	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	624	100	5	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	9510	250	10	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3130	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		213 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	20.8	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS11-4'

E510015-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.110	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	0.375	0.0250	1	10/02/25	10/04/25	
Toluene	0.487	0.0250	1	10/02/25	10/04/25	
o-Xylene	0.246	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	0.610	0.0500	1	10/02/25	10/04/25	
Total Xylenes	0.856	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	3660	125	5	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1690	250	5	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		90.4 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	1300	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS12-4'

E510015-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.0844	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	3.32	0.0250	1	10/02/25	10/04/25	
Toluene	1.77	0.0250	1	10/02/25	10/04/25	
o-Xylene	2.06	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	4.83	0.0500	1	10/02/25	10/04/25	
Total Xylenes	6.89	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	118	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		123 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	2280	250	10	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	863	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	344	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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FS13-4'

E510015-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	11.1	0.500	20	10/02/25	10/04/25	
Ethylbenzene	48.9	0.500	20	10/02/25	10/04/25	
Toluene	78.7	0.500	20	10/02/25	10/04/25	
o-Xylene	24.3	0.500	20	10/02/25	10/04/25	
p,m-Xylene	61.7	1.00	20	10/02/25	10/04/25	
Total Xylenes	85.9	0.500	20	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	1290	400	20	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	9730	500	20	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3660	1000	20	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		288 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	685	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW01-0-4'

E510015-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0312	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		93.5 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	328	20.0	1	10/03/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW02-0-4'

E510015-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organics by EPA 8021B

	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	

Surrogate: 4-Bromochlorobenzene-PID 95.8 % 70-130 10/02/25 10/04/25

Nonhalogenated Organics by EPA 8015D - GRO

	mg/kg	mg/kg	Analyst: SL		Batch: 2540107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	

Surrogate: 1-Chloro-4-fluorobenzene-FID 109 % 70-130 10/02/25 10/04/25

Nonhalogenated Organics by EPA 8015D - DRO/ORO

	mg/kg	mg/kg	Analyst: KH		Batch: 2540095	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	

Surrogate: n-Nonane 94.1 % 61-141 10/02/25 10/03/25

Anions by EPA 300.0/9056A

	mg/kg	mg/kg	Analyst: DT		Batch: 2540122	
Chloride	156	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW03-0-4'

E510015-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	35.2	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW04-0-4'

E510015-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	ND	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		95.0 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	81.3	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW05-0-1'

E510015-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0529	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>		91.7 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	115	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW06-0-1'

E510015-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0393	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		95.1 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	117	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW07-0-2'

E510015-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0303	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	46.1	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW08-0-2'

E510015-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	ND	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/04/25	
Toluene	0.0324	0.0250	1	10/02/25	10/04/25	
o-Xylene	ND	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.2 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		94.8 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	85.0	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW09-0-4'

E510015-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Benzene	0.853	0.0250	1	10/02/25	10/04/25	
Ethylbenzene	14.2	0.0250	1	10/02/25	10/04/25	
Toluene	16.8	0.0250	1	10/02/25	10/04/25	
o-Xylene	8.43	0.0250	1	10/02/25	10/04/25	
p,m-Xylene	18.6	0.0500	1	10/02/25	10/04/25	
Total Xylenes	27.0	0.0250	1	10/02/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.3 %	70-130	10/02/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540107
Gasoline Range Organics (C6-C10)	369	20.0	1	10/02/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		135 %	70-130	10/02/25	10/04/25	S5
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540095
Diesel Range Organics (C10-C28)	8780	250	10	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	3130	500	10	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		173 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540122
Chloride	28.8	20.0	1	10/03/25	10/04/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW10-0-4'

E510015-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.152	0.0250	1	10/02/25	10/02/25	
Ethylbenzene	4.42	0.0250	1	10/02/25	10/02/25	
Toluene	3.83	0.0250	1	10/02/25	10/02/25	
o-Xylene	7.17	0.0250	1	10/02/25	10/02/25	
p,m-Xylene	12.6	0.0500	1	10/02/25	10/02/25	
Total Xylenes	19.8	0.0250	1	10/02/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/02/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	301	20.0	1	10/02/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		130 %	70-130	10/02/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	8340	25.0	1	10/02/25	10/03/25	T9
Oil Range Organics (C28-C36)	2660	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		193 %	61-141	10/02/25	10/03/25	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	47.3	20.0	1	10/02/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW11-0-4'

E510015-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.0278	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	0.287	0.0250	1	10/02/25	10/03/25	
Toluene	0.233	0.0250	1	10/02/25	10/03/25	
o-Xylene	0.338	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	0.627	0.0500	1	10/02/25	10/03/25	
Total Xylenes	0.965	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	23.7	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	1960	50.0	2	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1170	100	2	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		91.1 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	989	20.0	1	10/02/25	10/03/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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SW12-0-4'

E510015-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Benzene	0.115	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	4.54	0.0250	1	10/02/25	10/03/25	
Toluene	3.73	0.0250	1	10/02/25	10/03/25	
o-Xylene	2.76	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	6.36	0.0500	1	10/02/25	10/03/25	
Total Xylenes	9.11	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.9 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540094
Gasoline Range Organics (C6-C10)	153	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		117 %	70-130	10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	2590	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	1280	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540098
Chloride	531	20.0	1	10/02/25	10/03/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540094-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

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	7.33		8.00		91.6	70-130			

LCS (2540094-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	3.75	0.0250	5.00		75.0	70-130			
Ethylbenzene	3.63	0.0250	5.00		72.6	70-130			
Toluene	3.69	0.0250	5.00		73.8	70-130			
o-Xylene	3.70	0.0250	5.00		74.1	70-130			
p,m-Xylene	7.40	0.0500	10.0		74.0	70-130			
Total Xylenes	11.1	0.0250	15.0		74.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			

Matrix Spike (2540094-MS1)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	4.29	0.0250	5.00	ND	85.8	70-130			
Ethylbenzene	4.15	0.0250	5.00	ND	83.0	70-130			
Toluene	4.22	0.0250	5.00	ND	84.5	70-130			
o-Xylene	4.23	0.0250	5.00	ND	84.6	70-130			
p,m-Xylene	8.42	0.0500	10.0	ND	84.2	70-130			
Total Xylenes	12.6	0.0250	15.0	ND	84.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

Matrix Spike Dup (2540094-MSD1)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Benzene	4.80	0.0250	5.00	ND	96.0	70-130	11.3	27	
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	70-130	12.1	26	
Toluene	4.75	0.0250	5.00	ND	95.0	70-130	11.8	20	
o-Xylene	4.72	0.0250	5.00	ND	94.4	70-130	11.0	25	
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	70-130	11.8	23	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	70-130	11.5	26	
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540107-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

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	7.27		8.00		90.9	70-130			

LCS (2540107-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.26	0.0250	5.00		85.2	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.34	0.0250	5.00		86.7	70-130			
o-Xylene	4.37	0.0250	5.00		87.4	70-130			
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130			
Total Xylenes	13.2	0.0250	15.0		88.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			

Matrix Spike (2540107-MS1)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.43	0.0250	5.00	ND	88.5	70-130			
Ethylbenzene	4.49	0.0250	5.00	ND	89.9	70-130			
Toluene	4.51	0.0250	5.00	0.0335	89.5	70-130			
o-Xylene	4.51	0.0250	5.00	ND	90.1	70-130			
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	70-130			
Total Xylenes	13.6	0.0250	15.0	ND	90.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike Dup (2540107-MSD1)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.17	0.0250	5.00	ND	83.4	70-130	6.00	27	
Ethylbenzene	4.25	0.0250	5.00	ND	84.9	70-130	5.69	26	
Toluene	4.25	0.0250	5.00	0.0335	84.4	70-130	5.85	20	
o-Xylene	4.27	0.0250	5.00	ND	85.4	70-130	5.34	25	
p,m-Xylene	8.63	0.0500	10.0	ND	86.3	70-130	5.59	23	
Total Xylenes	12.9	0.0250	15.0	ND	86.0	70-130	5.51	26	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540094-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

LCS (2540094-BS2)

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike (2540094-MS2)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike Dup (2540094-MSD2)

Source: E510012-23

Prepared: 10/02/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540107-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

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

LCS (2540107-BS2)

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike (2540107-MS2)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.80		8.00		110	70-130			

Matrix Spike Dup (2540107-MSD2)

Source: E510015-04

Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.90		8.00		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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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 (2540095-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.1	61-141			

LCS (2540095-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	236	25.0	250		94.5	66-144			
Surrogate: n-Nonane	45.5		50.0		91.0	61-141			

Matrix Spike (2540095-MS1)

Source: E510015-16

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	47.8		50.0		95.6	61-141			

Matrix Spike Dup (2540095-MSD1)

Source: E510015-16

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156	0.986	20	
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540096-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.7	61-141			

LCS (2540096-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	250	25.0	250		100	66-144			
Surrogate: <i>n</i> -Nonane	48.0		50.0		96.0	61-141			

Matrix Spike (2540096-MS1)

Source: E510014-27

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	56-156			
Surrogate: <i>n</i> -Nonane	56.2		50.0		112	61-141			

Matrix Spike Dup (2540096-MSD1)

Source: E510014-27

Prepared: 10/02/25 Analyzed: 10/02/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156	2.40	20	
Surrogate: <i>n</i> -Nonane	57.0		50.0		114	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540098-BLK1)

Prepared: 10/02/25 Analyzed: 10/02/25

Chloride ND 20.0

LCS (2540098-BS1)

Prepared: 10/02/25 Analyzed: 10/02/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2540098-MS1)

Source: E510007-01

Prepared: 10/02/25 Analyzed: 10/03/25

Chloride 591 20.0 250 389 80.6 80-120

Matrix Spike Dup (2540098-MSD1)

Source: E510007-01

Prepared: 10/02/25 Analyzed: 10/03/25

Chloride 593 20.0 250 389 81.4 80-120 0.321 20



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2025 1:40:29PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540122-BLK1)

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

Chloride ND 20.0

LCS (2540122-BS1)

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

Chloride 264 20.0 250 105 90-110

Matrix Spike (2540122-MS1)

Source: E510015-03

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

Chloride 841 20.0 250 592 99.4 80-120

Matrix Spike Dup (2540122-MSD1)

Source: E510015-03

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

Chloride 854 20.0 250 592 105 80-120 1.52 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/08/25 13:40
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S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510015		680030002					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	TCEQ 1005-TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
7:30	9/30/2025	Soil	1	FS03 - 1'		1								X					
7:33	9/30/2025	Soil	1	FS04 - 1'		2								X					
7:38	9/30/2025	Soil	1	FS05 - 2'		3								X					
7:40	9/30/2025	Soil	1	FS06 - 2'		4								X					
7:45	9/30/2025	Soil	1	FS07 - 2'		5								X					
9:46	9/30/2025	Soil	1	FS08 - 0.5'		6								X					
11:50	9/30/2025	Soil	1	FS09 - 4'		7								X					
11:54	9/30/2025	Soil	1	FS 10 - 4'		8								X					
11:58	9/30/2025	Soil	1	FS11 - 4'		9								X					
11:59	9/30/2025	Soil	1	FS 12 - 4'		10								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: 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: <input checked="" type="radio"/> Y <input type="radio"/> N							
<i>Israel Estrella</i>		10/1/25		7:11		<i>Michelle Gonzales</i>		10-1-25		0711									
<i>Michelle Gonzales</i>		10-1-25		1445		<i>Marissa Gonzales</i>		10-1-25		1445									
<i>Marissa Gonzales</i>		10-1-25		1900		<i>Andrew Musso</i>		10-1-25		1900									
<i>Andrew Musso</i>		10-1-25		2345		<i>Carly Han</i>		10-2-25		800									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Client Information		Invoice Information		Lab Use Only				TAT				State			
Client: Matador Production Company		Company: Ensolum LLC		Lab WO# E510015		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Santa Fe Exploration TB		Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220								x			
Project Manager: Ashley Giovengo		Phone: 575-988-0055		Email: agiovengo@ensolum.com											
Address: 3122 National Parks Hwy		Miscellaneous:													
City, State, Zip: Carlsbad NM, 88220															
Phone: 575-988-0055															
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			
12:00	9/30/2025	Soil	1	FS13 - 4'		11															
8:18	9/30/2025	Soil	1	SW01 - 0-4'		12															
8:20	9/30/2025	Soil	1	SW02 - 0-4'		13															
8:23	9/30/2025	Soil	1	SW03 - 0-4'		14															
8:26	9/30/2025	Soil	1	SW04 - 0-4'		15															
8:31	9/30/2025	Soil	1	SW05 - 0-1'		16															
8:34	9/30/2025	Soil	1	SW06 - 0-1'		17															
8:37	9/30/2025	Soil	1	SW07 - 0-2'		18															
8:40	9/30/2025	Soil	1	SW08 - 0-2'		19															
11:56	9/30/2025	Soil	1	SW09 - 0-4'		20															

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) <i>Israel Estrella</i>	Date 10/1/25	Time 7:11	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-1-25	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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 10-1-25	Time 1445	Received by: (Signature) <i>Mariass Gonzales</i>	Date 10-1-25	Time 1445	
Relinquished by: (Signature) <i>Mariass Gonzales</i>	Date 10-1-25	Time 1900	Received by: (Signature) <i>Andrew Musso</i>	Date 10-1-25	Time 1900	
Relinquished by: (Signature) <i>Andrew Musso</i>	Date 10-1-25	Time 2345	Received by: (Signature) <i>Carter Mann</i>	Date 10-2-25	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.

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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E510015		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	
11:57	9/30/2025	Soil	1	SW10 - 0-4'		21								X					
12:02	9/30/2025	Soil	1	SW11 - 0-4'		22								X					
12:04	9/30/2025	Soil	1	SW12 - 0-4'		23								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													
<i>Israel Estrella</i>	10/1/25	7:11	<i>Michelle Gonzales</i>	10-1-25	0711														
<i>Michelle Gonzales</i>	10-1-25	1445	<i>Marissa Gonzales</i>	10-1-25	1445														
<i>Marissa Gonzales</i>	10-1-25	1900	<i>Andrew Musso</i>	10-1-25	1900														
<i>Andrew Musso</i>	10-1-25	2345	<i>Christina</i>	10-2-25	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: 10/2/2025 10:22:39AM

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: 10/02/25 08:00 Work Order ID: E510015
Phone: (972) 371-5200 Date Logged In: 10/01/25 16:30 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 10/08/25 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: Santa Fe Exploration TB

Work Order: E511354

Job Number: 23003-0002

Received: 11/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/2/25

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: 12/2/25



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

Project Name: Santa Fe Exploration TB
Workorder: E511354
Date Received: 11/25/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/25/2025 7:30:00AM, under the Project Name: Santa Fe Exploration TB.

The analytical test results summarized in this report with the Project Name: Santa Fe Exploration 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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/02/25 16:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS12A-0'	E511354-01A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
SS12B-0'	E511354-02A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
SS12C-0'	E511354-03A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS14-0'	E511354-04A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS15-0'	E511354-05A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS16-0'	E511354-06A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS17-0'	E511354-07A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.
FS18-0'	E511354-08A	Soil	11/24/25	11/25/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12A-0'

E511354-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	39.3	25.0	1	11/25/25	12/01/25	
Oil Range Organics (C28-C36)	122	50.0	1	11/25/25	12/01/25	
<i>Surrogate: n-Nonane</i>		87.4 %	61-141	11/25/25	12/01/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: TP		Batch: 2548041
Chloride	132	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12B-0'

E511354-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		96.7 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	5460	100	5	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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SS12C-0'

E511354-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		94.3 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	6490	200	10	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS14-0'

E511354-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/25/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/25/25	
Toluene	ND	0.0250	1	11/25/25	11/25/25	
o-Xylene	ND	0.0250	1	11/25/25	11/25/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/25/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	11/25/25	11/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		97.0 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	855	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS15-0'

E511354-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.3 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>						
		93.6 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	35.1	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS16-0'

E511354-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		96.2 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	56.8	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS17-0'

E511354-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>						
		91.6 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	ND	20.0	1	11/25/25	11/25/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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FS18-0'

E511354-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Benzene	ND	0.0250	1	11/25/25	11/26/25	
Ethylbenzene	ND	0.0250	1	11/25/25	11/26/25	
Toluene	ND	0.0250	1	11/25/25	11/26/25	
o-Xylene	ND	0.0250	1	11/25/25	11/26/25	
p,m-Xylene	ND	0.0500	1	11/25/25	11/26/25	
Total Xylenes	ND	0.0250	1	11/25/25	11/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2548034
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/25	11/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	11/25/25	11/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2548030
Diesel Range Organics (C10-C28)	ND	25.0	1	11/25/25	11/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/25/25	11/25/25	
<i>Surrogate: n-Nonane</i>		94.2 %	61-141	11/25/25	11/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2548041
Chloride	ND	20.0	1	11/25/25	11/25/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548034-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

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	9.29		8.00		116	70-130			

LCS (2548034-BS1)

Prepared: 11/25/25 Analyzed: 12/01/25

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130			
Toluene	4.79	0.0250	5.00		95.7	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.67	0.0500	10.0		96.7	70-130			
Total Xylenes	14.5	0.0250	15.0		96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			

Matrix Spike (2548034-MS1)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Benzene	5.78	0.0250	5.00	ND	116	70-130			
Ethylbenzene	5.51	0.0250	5.00	ND	110	70-130			
Toluene	5.64	0.0250	5.00	ND	113	70-130			
o-Xylene	5.70	0.0250	5.00	ND	114	70-130			
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130			
Total Xylenes	16.9	0.0250	15.0	ND	113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.27		8.00		116	70-130			

Matrix Spike Dup (2548034-MSD1)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Benzene	5.05	0.0250	5.00	ND	101	70-130	13.4	27	
Ethylbenzene	4.89	0.0250	5.00	ND	97.7	70-130	12.1	26	
Toluene	4.96	0.0250	5.00	ND	99.3	70-130	12.8	20	
o-Xylene	5.02	0.0250	5.00	ND	100	70-130	12.7	25	
p,m-Xylene	9.99	0.0500	10.0	ND	99.8	70-130	11.7	23	
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130	12.0	26	
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548034-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

LCS (2548034-BS2)

Prepared: 11/25/25 Analyzed: 11/26/25

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2548034-MS2)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

Matrix Spike Dup (2548034-MSD2)

Source: E511356-01

Prepared: 11/25/25 Analyzed: 11/25/25

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	16.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548030-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

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 (2548030-BS1)

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	244	25.0	250		97.8	66-144			
Surrogate: <i>n</i> -Nonane	46.7		50.0		93.4	61-141			

Matrix Spike (2548030-MS1)

Source: E511357-02

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	61-141			

Matrix Spike Dup (2548030-MSD1)

Source: E511357-02

Prepared: 11/25/25 Analyzed: 11/25/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	0.692	20	
Surrogate: <i>n</i> -Nonane	49.9		50.0		99.7	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/2/2025 4:52:36PM
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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 (2548041-BLK1)

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride ND 20.0

LCS (2548041-BS1)

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 258 20.0 250 103 90-110

Matrix Spike (2548041-MS1)

Source: E511356-09

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 428 20.0 250 182 98.6 80-120

Matrix Spike Dup (2548041-MSD1)

Source: E511356-09

Prepared: 11/25/25 Analyzed: 11/25/25

Chloride 437 20.0 250 182 102 80-120 2.07 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: Santa Fe Exploration TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/02/25 16:52
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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: Santa Fe Exploration TB				Address: 3122 National Parks Hwy				E511354		23008-0007					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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BEDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
805	11/24/2025	S	1	SS12A - 0'		1								X		2.6			
807	11/24/2025	S	1	SS12B - 0'		2								X		1.3			
809	11/24/2025	S	1	SS12C - 0'		3								X		1.3			
811	11/24/2025	S	1	FS14 - 0'		4								X		1.8			
813	11/24/2025	S	1	FS15 - 0'		5								X		1.3			
815	11/24/2025	S	1	FS16 - 0'		6								X		1.6			
817	11/24/2025	S	1	FS17 - 0'		7								X		1.8			
819	11/24/2025	S	1	FS18 - 0'		8								X		2.1			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																			
Relinquished by: (Signature) <i>JM</i>				Date: 11-24-25		Time: 711		Received by: (Signature) <i>Michelle Gonzales</i>				Date: 11-24-25		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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature) <i>Michelle Gonzales</i>				Date: 11-24-25		Time: 1245		Received by: (Signature) <i>Marissa Gonzales</i>				Date: 11-24-25		Time: 1245					
Relinquished by: (Signature) <i>Marissa Gonzales</i>				Date: 11-24-25		Time: 1710		Received by: (Signature) <i>Carth...</i>				Date: 11-24-25		Time: 1710					
Relinquished by: (Signature) <i>Carth...</i>				Date: 11-24-25		Time: 2100		Received by: (Signature) <i>Carth...</i>				Date: 11-25-25		Time: 730					
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Date:		Time:					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 11/25/2025 9:41:38AM

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: 11/25/25 07:30 Work Order ID: E511354
Phone: (972) 371-5200 Date Logged In: 11/24/25 15:07 Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com Due Date: 12/03/25 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.



APPENDIX E

NMOCD Correspondence

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Chad Hamilton](#); [Cole Burton](#); [Bilkis Moir](#)
Subject: RE: [EXTERNAL] Extension Request - Matador Production Company - Santa Fe Exploration TB - nAPP2511224161
Date: Monday, July 21, 2025 11:17:11 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to October 19, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

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

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

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

Thank you,
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
<http://www.emnrn.nm.gov/ocd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrn.nm.gov>
Sent: Monday, July 21, 2025 8:19 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrn.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrn.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Matador Production Company - Santa Fe Exploration

TB - nAPP2511224161

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, July 21, 2025 7:36 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Chad Hamilton <chamilton@ensolum.com>; Cole Burton <cburton@ensolum.com>; Bilkis Moir <bmoir@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Santa Fe Exploration TB - nAPP2511224161

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

Hello all,

Matador Production Company (Matador) is requesting an extension for the current deadline of July 21, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Santa Fe Exploration TB (Site) (Incident Number nAPP2511224161). The release occurred on April 21, 2025, and 26 barrels (bbls) of crude oil were released; 10 bbls of crude oil were recovered. The release impacted an area on-pad approximately 1,182 square feet in size and an off-pad area approximately 1,046 square feet in size on Private Land. Lateral delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I criteria has been completed at the Site; vertical delineation soil sampling is currently on-going. Excavation of the subject matter release will begin as soon as Matador selects a subcontractor to complete excavation activities. 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 October 19, 2025. Please let me know if you have any further questions regarding this site.

Thanks,



Ashley Giovengo

Associate Principal

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

From: [Rodgers, Scott, EMNRD](#)
To: [Chad Hamilton](#)
Cc: jason.touchet@matadorresources.com; [Ashley Giovengo](#)
Subject: RE: [EXTERNAL] Matador Production Company - Santa Fe Exploration TB - Incident Number nAPP2511224161
Date: Monday, October 20, 2025 10:58:42 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to December 19, 2025 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@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Monday, October 20, 2025 7:40 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Ashley Giovengo <agiovengo@ensolum.com>
Subject: [EXTERNAL] Matador Production Company - Santa Fe Exploration TB - Incident Number nAPP2511224161

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

All,

Matador Production Company (Matador) is requesting a second extension of the current deadline of October 20, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Santa Fe Exploration TB (Site) (Incident Number nAPP2511224161). The release occurred on April 21, 2025, and approximately 26 barrels (bbls) of crude oil were released into an earthen containment, onto the pad surface, and into the adjacent pasture; 10 bbls were recoverable and 16 bbls were unrecoverable. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger, track hoe, and an air rotary drill rig. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH05) at depths ranging from ground surface to 20 feet below ground surface (bgs), respectively. Beginning on September 25, 2025, Ensolum personnel returned to the Site to begin excavation activities and collect confirmation soil samples from within the release extent. Matador respectfully requests a second extension (60-days) until December 19, 2025. Matador will submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

in f 

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 454073

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454073
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Santa Fe Exploration TB
Date Release Discovered	04/21/2025
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 26 BBL Recovered: 10 BBL Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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 454073

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454073
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 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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1220 S. St Francis Dr.
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ACKNOWLEDGMENTS

Action 454073

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454073
	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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CONDITIONS

Action 454073

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454073
	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.	4/22/2025

Impacted Soil	
Saturated Soil (inches)	
	5
In Containment	
	1006
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	10
Soil type	
	pad caliche
Spill type	
	oil(crude)
Barrel estimate in soil	
	10.0
Barrel estimate (standing fluids/ recovered+in soil)	
	20.0

Impacted Soil	
Saturated Soil (inches)	
	2
On-pad	
	172
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	0
Soil type	
	pad caliche
Spill type	
	oil(crude)
Barrel estimate in soil	
	0.7
Barrel estimate (standing fluids/ recovered+in soil)	
	0.7

Impacted Soil	
Saturated Soil (inches)	
	2
Off-pad	
	1046
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	0
Soil type	
	Silty-sand
Spill type	
	oil(crude)
Barrel estimate in soil	
	5.0
Barrel estimate (standing fluids/ recovered+in soil)	
	5.0

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QUESTIONS

Action 454316

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454316
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 26 BBL Recovered: 10 BBL Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 454316

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454316
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 04/22/2025
--	--

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QUESTIONS, Page 3

Action 454316

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454316
	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.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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

Requesting a remediation plan approval with this submission	No
<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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CONDITIONS

Action 454316

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 454316
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	4/22/2025

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Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 508119

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508119
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,225
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/25/2025
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	32.77141,-103.69944

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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CONDITIONS

Action 508119

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508119
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/22/2025
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.	9/22/2025

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**State of New Mexico
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QUESTIONS

Action 508514

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508514
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,225
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2025
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	32.77141,-103.69944

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CONDITIONS

Action 508514

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508514
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/23/2025
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.	9/23/2025

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QUESTIONS

Action 508521

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508521
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,225
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/29/2025
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	32.77141,-103.69944

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CONDITIONS

Action 508521

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508521
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/23/2025
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.	9/23/2025

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QUESTIONS

Action 508526

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508526
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,225
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2025
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	32.77141,-103.69944

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CONDITIONS

Action 508526

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508526
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/23/2025
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.	9/23/2025

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QUESTIONS

Action 508531

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508531
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,225
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/01/2025
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	32.77141,-103.69944

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CONDITIONS

Action 508531

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508531
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/23/2025
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.	9/23/2025

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 569915

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511224161
Incident Name	NAPP2511224161 SANTA FE EXPLORATION TB @ FAPP2203325080
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2203325080] Santa Fe Facility Tank Battery

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	SANTA FE EXPLORATION TB
Date Release Discovered	04/21/2025
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 26 BBL Recovered: 10 BBL Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 569915

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 04/01/2026
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QUESTIONS, Page 3

Action 569915

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	6490
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1146
GRO+DRO (EPA SW-846 Method 8015M)	880
BTEX (EPA SW-846 Method 8021B or 8260B)	24
Benzene (EPA SW-846 Method 8021B or 8260B)	1

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	02/23/2026
On what date will (or did) the final sampling or liner inspection occur	02/25/2026
On what date will (or was) the remediation complete(d)	02/25/2026
What is the estimated surface area (in square feet) that will be reclaimed	2545
What is the estimated volume (in cubic yards) that will be reclaimed	1184
What is the estimated surface area (in square feet) that will be remediated	2545
What is the estimated volume (in cubic yards) that will be remediated	1184

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 569915

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land LLC
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 04/01/2026
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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 569915

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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Action 569915

QUESTIONS (continued)

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

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	555000
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2026
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1491

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1492
What was the total volume (cubic yards) remediated	740
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1492
What was the total volume (in cubic yards) reclaimed	740
Summarize any additional remediation activities not included by answers (above)	Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater have requirements set forth in 19.15.29 NMAC have been adhered to and as such, respectfully requests Closure for Incident Number nAPP2511224161.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 04/01/2026
--	--

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Action 569915

QUESTIONS (continued)

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	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 569915

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 569915
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/28/2026