ENSOLUM

October 30, 2025
New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Reclamation Report
Abe 1 TB
Incident Number nAPP2406265359
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared the following *Reclamation Report* for the Abe 1 TB (Site). The *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

The Site is located in Unit L, Section 28, Township 21 South, Range 33 East, in Lea County, New Mexico (32.44503°, -103.57516°) and is associated with oil and gas exploration and production operations on Private Land.

On March 2, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 21 barrels (bbls) of produced water onto an off-pad area north of the caliche pad; none of the released produced water liquids were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 2, 2024, and submitted an initial C-141 application (Form C-141) on March 6, 2024. The release was subsequently assigned Incident Number nAPP2406265359.

Delineation and excavation of impacted soil was completed at the Site in April 2024. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on May 14, 2024. The NMOCD approved the *Closure Request* on May 20, 2024. Additional details regarding the release, site characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as Appendix A. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

The excavation area measured approximately 5,617 square feet. A total of approximately 320 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled, and the area was graded and contoured to match the surrounding topography. The excavation area was backfilled with locally sourced caliche and topsoil to match surrounding grade. The excavation extent and

reclamation area are depicted on the attached Figure 1. Photographic documentation is included in Appendix B.

One representative 5-point composite sample (BF01) was collected from the topsoil backfill material. The backfill soil sample was transported under strict chain-of-custody procedures to Envirotech Laboratories (Eurofins) 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; total petroleum hydrocarbons (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.

Laboratory analytical results for the backfill soil samples confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1, and the complete laboratory analytical report is included as Appendix C.

The disturbed pasture area was seeded on May 24, 2024, with the New Mexico State Land Office (NMSLO) sandy loam sites seed mix at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method.

Species (Variety)	PLS/Acre
Galleta grass (Viva, VNS, So.)	2.50
Little Bluestem (Cimmaron, Pastura)	2.50
Blue grama (Hachita, Lovington)	2.00
Sideoats grama (Vaughn, El Reno)	2.00
Sand dropseed (VNS, Southern)	1.00
Indian blanketflower (VNS, Southern)	1.00
Parry penstemon (VNS, Southern)	1.00
Blue flax (Appar)	1.00
Desert globemallow (VNS, Southern)	1.00
Fourwing saltbush (VNS, Southern)	2.00
Common winterfat (VNS, Southern)	1.00
Apache plume (VNS, Southern)	0.75

The seed mix was doubled and distributed with a broadcast seed spreader and harrowed in. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix B.

VEGETATION MONITORING

The Site was monitored for vegetation growth to verify reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

A *Re-vegetation Report* is included as Appendix D. The reclaimed pasture area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D. (3).

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date and re-vegetation assessment described above, Matador respectfully requests approval of this *Reclamation Report* and full closure for Incident Number nAPP2406265359.

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

Sincerely,
Ensolum, LLC

Chad Hamilton
Project Geologist

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

cc: Jason Touchet; Matador Production Company

Appendices:

Figure 1	Excavation Extent / Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Closure Request Report: Dated May 14, 2024
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Report & Chain of Custody Documentation
Appendix D	Re-vegetation Report: Dated October 1, 2025

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FIGURES

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Excavation Extent/Reclamation Area

Matador Production Company
Abe 1 TB
Incident Number: nAPP2406265359
Unit L, Section 28, T 21S, R 33E
Lea County, New Mexico

FIGURE 1

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 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 Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Delineation Soil Samples										
BF01	9/23/2025	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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

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APPENDIX A

Closure Request Report: Dated May 14, 2024

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May 8, 2024

New Mexico Energy Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
ABE 1 TB
Incident Number nAPP2406265359
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the ABE 1 TB (Site). The Site is located in Unit L, Section 28, Township 21 South, Range 33 East, in Lea County, New Mexico (32.44503°, -103.57516°) and is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2406265359.

BACKGROUND

On March 2, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 21 barrels (bbls) of produced water onto an off-pad area north of the caliche pad; none of the release produced water liquids were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 2, 2024, and submitted an initial C-141 application (Form C-141) on March 6, 2024. The release was subsequently assigned Incident Number nAPP2406265359.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP 01356 POD1, located approximately 1/2-mile southeast of the Site. The well had a reported depth to groundwater greater than 765 feet below ground surface (bgs) and a

total depth of 1,098 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.94 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES

On March 4, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On March 7, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Five delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface to assess the lateral extent of affected soil. Three boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release area. Boreholes BH01 through BH03 were advanced to a depth of 1-foot bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from ground surface to 1-foot bgs. Soil from the discrete delineation soil samples was field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

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

analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Beginning on April 10, 2024, waste-containing soil was excavated from the off-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred on the well pad and on the west side of the separators. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride utilizing a PetroFLAG® analyzer kit and Hach® chloride QuanTab® test strips, respectively.

Following the removal of waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS29) were collected from the floor of the excavation at depths ranging from 0.5 feet to 1.5 feet bgs. Confirmation sidewall soil samples (SW01 through SW03) were collected at depths ranging from ground surface to 1-foot bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 5,617 square feet. A total of approximately 320 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS05, collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH03 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest criteria at a depth of 1-foot bgs.

Laboratory analytical results for excavation floor soil samples FS01 through FS29 indicated all COC concentrations were in compliance with the strictest Closure Criteria at depth ranging from 0.5 feet to 1.5 feet bgs. Laboratory analytical results for confirmation side wall samples SW01 though SW03 were all below the strictest closure criteria from ground surface to 1-foot bgs. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples (SS01 through SS05), collected at ground surface, and vertically by boreholes (BH01 through BH03), collected at a depth of 1-foot bgs. Excavation of the waste-containing soil area off pad was completed, and excavation floor samples (FS01 through FS29), collected at depths ranging from 0.5 feet to 1.5 feet bgs, and confirmation sidewall soil samples (SW01 through SW03), collected from ground surface to 1-foot bgs, were all in compliance with the strictest Closure Criteria and with the reclamation requirement.

Based on the remedial actions completed to date and a depth to groundwater greater than 765 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2406265359.

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

Sincerely,
Ensolum, LLC

Ashley Giovengo
Senior Scientist

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

Appendices:

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

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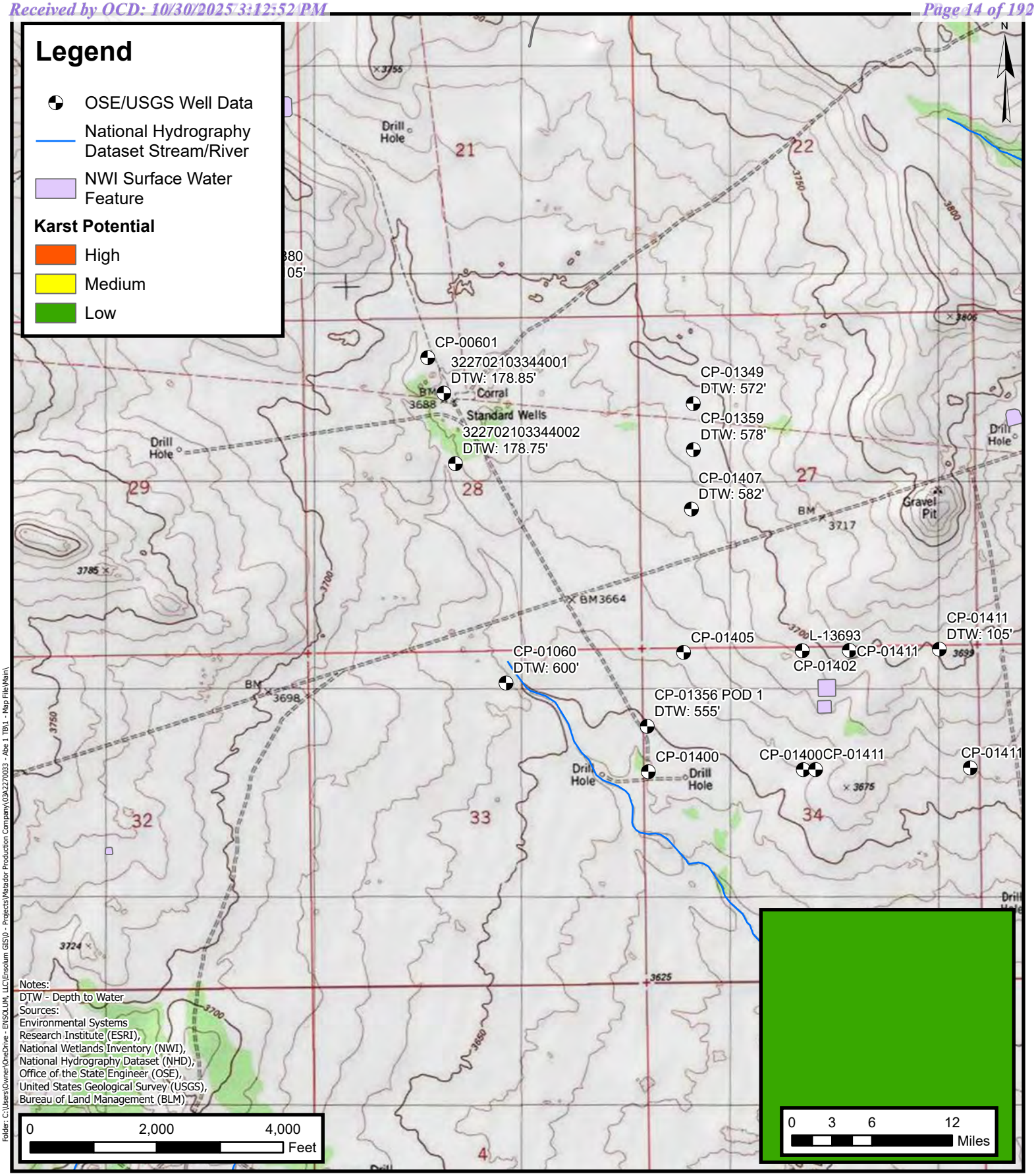
FIGURES



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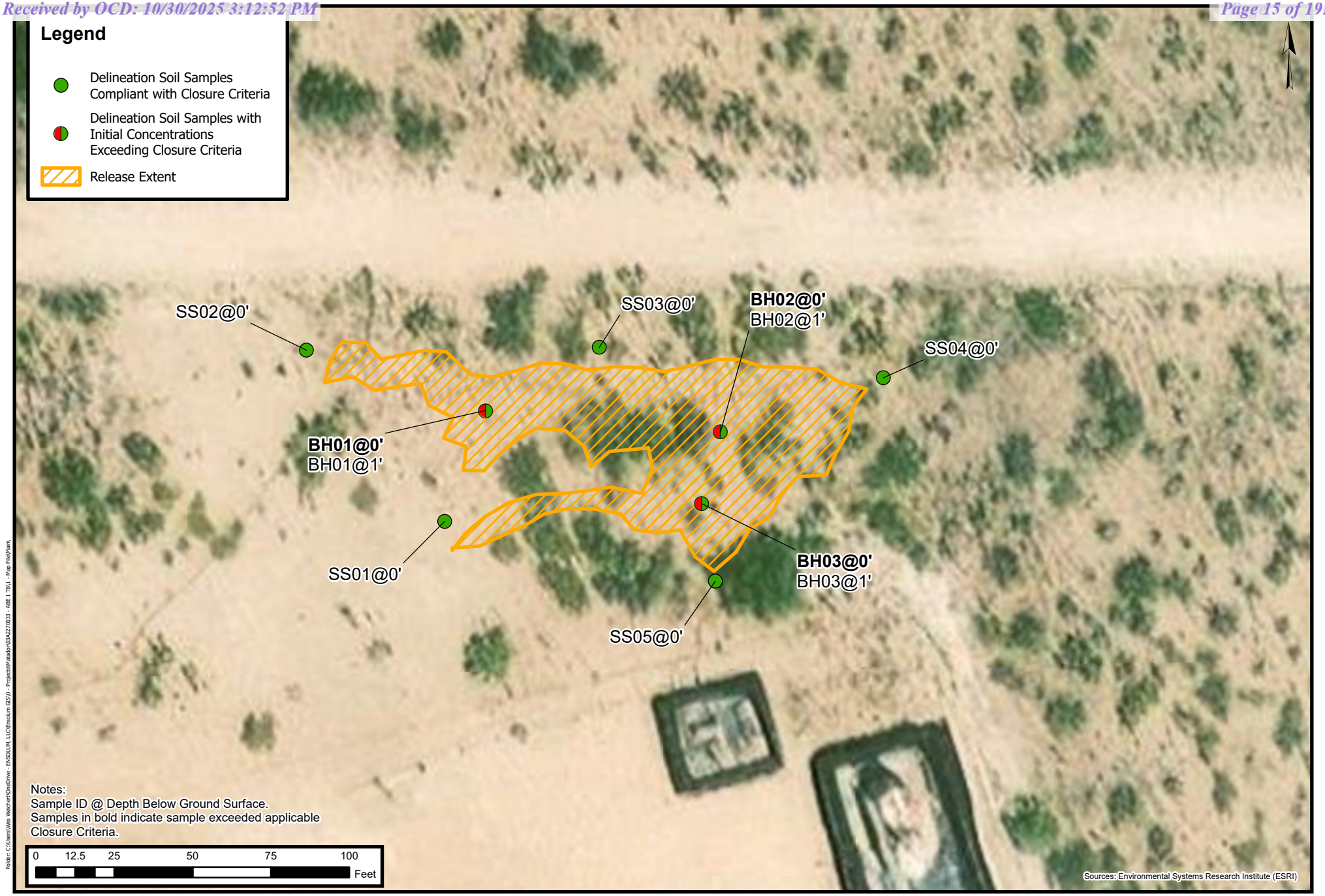
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Matador Production Company
Abe 1 TB
Incident Number: nAPP2406265359
Unit L, Section 28, Township 21S, Range 33E
Eddy County, New Mexico

FIGURE 1



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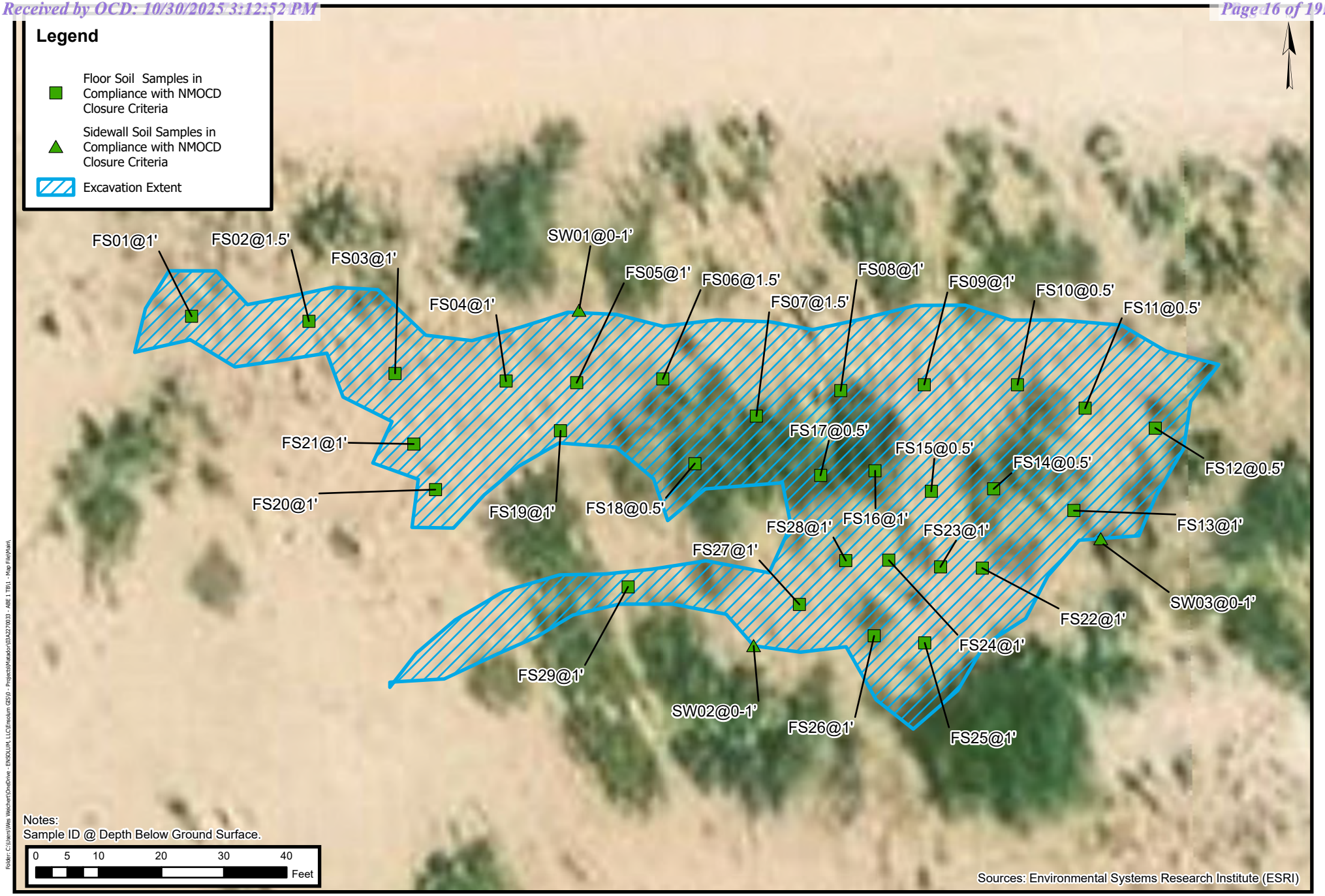
Delineation Soil Sample Locations

Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359
Unit L, Section 28, Township 21S, Range 33E
Lea County, New Mexico, United States

FIGURE 2



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Confirmation Soil Sample Locations

Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359
Unit L, Section 28, Township 21S, Range 33E
Lea County, New Mexico, United States

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	40.9
SS02	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS04	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS05	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH01	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	**4,480**
BH01	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	147
BH02	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	**3,820**
BH02	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	98.8
BH03	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	**1,200**
BH03	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	23.9

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Grey text represents samples that have been excavated
"<": Laboratory Analytical result is less than reporting limit
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
FS01	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	308
FS02	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	76.5
FS03	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	92.8
FS04	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	27.6
FS05	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	31.1
FS06	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	87.2
FS07	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	52.4
FS08	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	74.0
FS09	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.3
FS10	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	95.0
FS11	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	251
FS12	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	368
FS13	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS14	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	321
FS15	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	231
FS16	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	121
FS17	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	299
FS18	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	492
FS19	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	27.0
FS20	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	45.2

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Grey text represents samples that have been excavated
"<": Laboratory Analytical result is less than reporting limit
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 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 Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
FS21	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.9
FS22	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	52.1
FS23	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	44.1
FS24	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	72.7
FS25	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	49.2
FS26	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	37.2
FS27	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.9
FS28	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	41.2
FS29	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	92.1
Sidewall Soil Samples										
SW01	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	163
SW02	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	65.0
SW03	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	83.4

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Grey text represents samples that have been excavated
"<": Laboratory Analytical result is less than reporting limit
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
** Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.*

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

ENSOLUM

APPENDIX A

Well Log and Record

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): CP-1356 (JD-33 East)	OSE FILE NUMBER(S):
WELL OWNER NAME(S): Merchants/Glenn's Water Well Service, Inc.	PHONE (OPTIONAL): 575-398-2424
WELL OWNER MAILING ADDRESS: P. O. Box 692	CITY: Tatum STATE: NM ZIP: 88267

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	26	20.9	N
LONGITUDE	103	34	7	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE:
SE1/4NE1/4NE1/4 Section 33, Township 21 South, Range 33 East on Merchants Livestock Land

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD 421	Corky Glenn	Glenn's Water Well Service, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
08/01/14	08/09/14	1,098'	1,098'	765'

COMPLETED WELL IS: (●) ARTESIAN ( ) DRY HOLE ( ) SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 555.2'

DRILLING FLUID: (●) AIR (●) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (●) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0'	40'	20"	16"	None	15 1/2"	.250	
0'	760'	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	none
735'	1,098'	8 3/4"	7"	Thread & Collar	6.366"	23 lbs.	1/8"

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0'	40'	20"	Cemented	2 yds.	Top Pour
0'	760'	14 3/4"	Float and shoe cemented to surface	655 cu ft	Circulated

FOR OSE INTERNAL USE

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

FILE NUMBER	CP-1356	POD NUMBER	1	TRN NUMBER	549453
LOCATION	Exp1	21S.33E.33.224			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	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)
0	3	3	Soil	○ Y ● N	
3	34	31	Caleche	○ Y ● N	
34	275	241	Red Clay	○ Y ● N	
275	760	485	Red & Brown Shale	○ Y ● N	
760	765	5	Red Shale & Sandrock	○ Y ● N	
765	795	30	Water Sand	● Y ○ N	
795	825	30	Red Shale & Sandrock	● Y ○ N	
825	920	95	Water Sand	● Y ○ N	
920	935	15	Red Shale & Sandrock	● Y ○ N	
935	968	33	Water Sand & Sandrock	● Y ○ N	
968	976	8	Red Shale & Sandrock	● Y ○ N	
976	1005	29	Water sand & strips of red shale	● Y ○ N	
1005	1092	87	Water sand fine	● Y ○ N	
1092	1098	6	Red Shale	○ Y ● N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ● PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

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:

0' to 760' drilled with mud.
760' to 1,098' drilled with air and foam.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

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 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Corky Glenn — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

8/21/14 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1356	POD NUMBER	1	TRN NUMBER	549453
LOCATION	Exp1	21S.33E.33.224			PAGE 2 OF 2

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 1 Date: 03/04/2024
Description: Initial Spill Area
View: South

Photograph 2 Date: 03/04/2024
Description: Initial Spill Area
View: South

Photograph 3 Date: 03/04/2024
Description: Initial Spill Area
View: North

Photograph 4 Date: 03/04/2024
Description: Initial Spill Area
View: Southeast

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 5 Date:03/07/2024
Description: Lease Sign
View: West

Photograph 6 Date:03/07/2024
Description: Delineation Sampling
View: East

Photograph 7 Date:03/07/2024
Description: Delineation Sampling
View: South

Photograph 8 Date:03/07/2024
Description: Delineation Sampling
View: West

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 9 Date: 04/10/2024
Description: Excavation
View: Northeast

Photograph 10 Date: 04/10/2024
Description: Excavation
View: South

Photograph 11 Date: 04/10/2024
Description: Excavation
View: West

Photograph 12 Date: 04/10/2024
Description: Excavation - Contaminated Soil Pile
View: South

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 13 Date: 04/11/2024
Description: Excavation
View: West

Photograph 14 Date: 04/11/2024
Description: Excavation
View: Southwest

Photograph 15 Date: 04/11/2024
Description: Excavation
View: North

Photograph 16 Date: 04/11/2024
Description: Excavation
View: Northwest

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 17 Date: 04/12/2024
Description: Excavation
View: Southwest

Photograph 18 Date: 04/12/2024
Description: Excavation
View: Southeast

Photograph 19 Date: 04/15/2024
Description: Excavation
View: West

Photograph 20 Date: 04/15/2024
Description: Excavation
View: East

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 3/7/24
	Site Name: Abe 1 TB	
	Incident Number: nAPP2406265359	
	Job Number: 03A2270033	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.445092, -103.575117	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH02	0	0	SP-SM	Dry, Sand, No staining.
D	162	29	N	BH02	1	1	SP-SM	Dry, Sand, No staining.

Total Depth @ 1' bgs

ENSOLUM

	Sample Name: BH02	Date: 3/7/24
	Site Name: Abe 1 TB	
	Incident Number: nAPP2406265359	
	Job Number: 03A2270033	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.445092, -103.575117	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH02	0	0	SP-SM	Dry, Sand, No staining.
D	ND	52	N	BH02	1	1	SP-SM	Dry, Sand, No staining.

Total Depth @ 1' bgs

ENSOLUM

	Sample Name: BH03	Date: 3/7/24
	Site Name: Abe 1 TB	
	Incident Number: nAPP2406265359	
	Job Number: 03A2270033	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.445030, -103.575137	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH03	0	0	SP-SM	Moist, Sand, No staining.
D	ND	30	N	BH03	1	1	SP-SM	Dry, Sand, No staining.

Total Depth @ 1' bgs

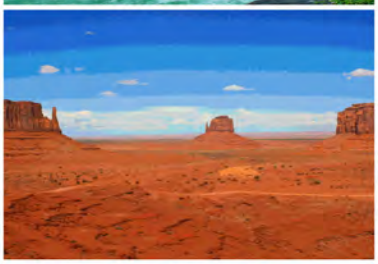
ENSOLUM

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E403095
Job Number:	23003-C-0001
Received:	3/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

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: 3/18/24

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

Project Name: Abe 1 TB
Workorder: E403095
Date Received: 3/11/2024 9:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2024 9:45:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/18/24 12:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E403095-01A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS02-0'	E403095-02A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS03-0'	E403095-03A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS04-0'	E403095-04A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS05-0'	E403095-05A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

SS01-0'

E403095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/13/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**40.9**	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

SS02-0'

E403095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.6 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*03/13/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

SS03-0'

E403095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.6 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*03/13/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

SS04-0'

E403095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

SS05-0'

E403095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.2 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

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
Blank (2411023-BLK1)									Prepared: 03/11/24 Analyzed: 03/11/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			
LCS (2411023-BS1)									Prepared: 03/11/24 Analyzed: 03/11/24
Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.75*		*8.00*		*96.8*	*70-130*			
Matrix Spike (2411023-MS1)				**Source: E403092-02**					Prepared: 03/11/24 Analyzed: 03/12/24
Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			
Matrix Spike Dup (2411023-MSD1)				**Source: E403092-02**					Prepared: 03/11/24 Analyzed: 03/12/24
Benzene	5.12	0.0250	5.00	ND	102	54-133	0.804	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	0.633	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	0.603	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	0.747	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.786	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.773	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2411023-BLK1)									Prepared: 03/11/24 Analyzed: 03/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.09*		*8.00*		*88.7*	*70-130*			
LCS (2411023-BS2)									Prepared: 03/11/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2411023-MS2)				**Source: E403092-02**					Prepared: 03/11/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.19*		*8.00*		*89.9*	*70-130*			
Matrix Spike Dup (2411023-MSD2)				**Source: E403092-02**					Prepared: 03/11/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.8	70-130	2.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.7*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2411065-BLK1)									Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
LCS (2411065-BS1)									Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: n-Nonane	*53.1*		*50.0*		*106*	*50-200*			
Matrix Spike (2411065-MS1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
Matrix Spike Dup (2411065-MSD1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	2.06	20	
Surrogate: n-Nonane	*55.4*		*50.0*		*111*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 12:01:42PM

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 (2411101-BLK1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	ND	20.0							
LCS (2411101-BS1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2411101-BSD1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	253	20.0	250		101	90-110	0.120	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/18/24 12:01

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.

Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company.
Project: Abe 1 TB
Project Manager: Ashley Giovengo
Address: 3122 National Parks Hwy
City, State, Zip: Carlsbad NM, 88220
Phone: 575-988-0055
Email: agiovengo@ensolum.com
Report due by:

Bill To
Ensolum
Attention: Matador Production Company
Address: on file
City, State, Zip:
Phone: (337)319-8398
Email: clinton.talley@matadorresources.com

Lab Use Only: Lab WO# E403095; Job Number 23003-C-0001

TAT: 1D | 2D | 3D | Standard x

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		TCEQ TPH	BGDOC NM		GDOC TX		Remarks
9:50	3/7/2024	Soil	1	SS01 - 0'	1								X				
9:52	3/7/2024	Soil	1	SS02 - 0'	2								X				
9:54	3/7/2024	Soil	1	SS03 - 0'	3								X				
9:57	3/7/2024	Soil	1	SS04 - 0'	4								X				
12:25	3/7/2024	Soil	1	SS05 - 0'	5								X				

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

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

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
[signature]	3/8/24	8:03	Michelle Leigh	3-8-24	0803
Michelle Leigh	3-8-24	1745	Andrew Nelson	3-8-24	1745
Andrew Nelson	3-8-24	2400	[signature]	3/11/24	945

Lab Use Only
Received on ice: (Y) / N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 3/11/2024 1:28:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	03/11/24 09:45	Work Order ID:	E403095
Phone:	(972) 371-5200	Date Logged In:	03/11/24 13:25	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	03/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC Yes
3. Were samples dropped off by client or carrier? Yes Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes
   Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
    Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filteration 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

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E403096
Job Number:	23003-C-0001
Received:	3/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

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: 3/18/24

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

Project Name: Abe 1 TB
Workorder: E403096
Date Received: 3/11/2024 9:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2024 9:45:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding 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

Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/18/24 16:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E403096-01A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH02-0'	E403096-02A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH03-0'	E403096-03A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH01-1'	E403096-04A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH02-1'	E403096-05A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH03-1'	E403096-06A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH01-0'

E403096-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/13/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**4480**	40.0	2	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH02-0'

E403096-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*03/13/24*	*03/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**3820**	40.0	2	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH03-0'

E403096-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*03/13/24*	*03/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**1200**	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH01-1'

E403096-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**147**	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH02-1'

E403096-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/13/24*	*03/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**98.8**	20.0	1	03/14/24	03/16/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

BH03-1'

E403096-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/11/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/11/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/13/24*	*03/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411101
Chloride	**23.9**	20.0	1	03/14/24	03/16/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

Volatile Organic Compounds by EPA 8260B

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
Blank (2411035-BLK1)									Prepared: 03/11/24 Analyzed: 03/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.527*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.457*		*0.500*		*91.4*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2411035-BS1)									Prepared: 03/11/24 Analyzed: 03/15/24
Benzene	2.53	0.0250	2.50		101	70-130			
Ethylbenzene	2.54	0.0250	2.50		102	70-130			
Toluene	2.75	0.0250	2.50		110	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.59	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.537*		*0.500*		*107*	*70-130*			
Matrix Spike (2411035-MS1)				**Source: E403098-02**					Prepared: 03/11/24 Analyzed: 03/15/24
Benzene	2.50	0.0250	2.50	ND	99.9	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.77	0.0250	2.50	ND	111	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.8	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*0.550*		*0.500*		*110*	*70-130*			
Matrix Spike Dup (2411035-MSD1)				**Source: E403098-02**					Prepared: 03/11/24 Analyzed: 03/15/24
Benzene	2.48	0.0250	2.50	ND	99.3	48-131	0.582	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	0.117	27	
Toluene	2.76	0.0250	2.50	ND	110	48-130	0.344	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	0.477	27	
p,m-Xylene	5.00	0.0500	5.00	ND	99.9	43-135	0.0501	27	
Total Xylenes	7.52	0.0250	7.50	ND	100	43-135	0.193	27	
Surrogate: Bromofluorobenzene	*0.519*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*0.549*		*0.500*		*110*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

Nonhalogenated Organics by EPA 8015D - GRO

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
Blank (2411035-BLK1)									Prepared: 03/11/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.527*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.457*		*0.500*		*91.4*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2411035-BS2)									Prepared: 03/11/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	56.7	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	*0.546*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: Toluene-d8	*0.562*		*0.500*		*112*	*70-130*			
Matrix Spike (2411035-MS2)				**Source: E403098-02**					Prepared: 03/11/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	64.0	20.0	50.0	ND	128	70-130			
Surrogate: Bromofluorobenzene	*0.537*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.548*		*0.500*		*110*	*70-130*			
Matrix Spike Dup (2411035-MSD2)				**Source: E403098-02**					Prepared: 03/11/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	61.5	20.0	50.0	ND	123	70-130	3.97	20	
Surrogate: Bromofluorobenzene	*0.535*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.572*		*0.500*		*114*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2411083-BLK1)									Prepared: 03/13/24 Analyzed: 03/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.5*		*50.0*		*105*	*50-200*			
LCS (2411083-BS1)									Prepared: 03/13/24 Analyzed: 03/15/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	*53.3*		*50.0*		*107*	*50-200*			
LCS Dup (2411083-BSD1)									Prepared: 03/13/24 Analyzed: 03/15/24
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132	2.59	20	
Surrogate: n-Nonane	*51.1*		*50.0*		*102*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/18/2024 4:08:19PM

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 (2411101-BLK1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	ND	20.0							
LCS (2411101-BS1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2411101-BSD1)									Prepared: 03/14/24 Analyzed: 03/16/24
Chloride	253	20.0	250		101	90-110	0.120	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/18/24 16:08

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

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

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

Project Information

Chain of Custody

Ensolum

Client: Matador Production Company.	Bill To
Project: Abe 1 TB	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E403096	23003-C-0001				x		

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		TCEQ TPH	BGDOC NM		GDOC TX		Remarks
10:40	3/7/2024	Soil	1	BH01 - 0'	1								X				
10:44	3/7/2024	Soil	1	BH02 - 0'	2								X				
10:48	3/7/2024	Soil	1	BH03 - 0'	3								X				
10:42	3/7/2024	Soil	1	BH01 - 1'	4								X				
10:46	3/7/2024	Soil	1	BH02 - 1'	5								X				
10:48	3/7/2024	Soil	1	BH03 - 1'	6								X				

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

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

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
[signature]	3/8/24	8:01	[signature]	3-8-24	0801
[signature]	3-8-24	1745	[signature]	3-8-24	1745
[signature]	3-8-24	2400	[signature]	3/11/24	9:45

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 3/11/2024 1:33:10PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	03/11/24 09:45	Work Order ID:	E403096
Phone:	(972) 371-5200	Date Logged In:	03/11/24 13:29	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	03/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC Yes
3. Were samples dropped off by client or carrier? Yes Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes
   Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
    Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filteration 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

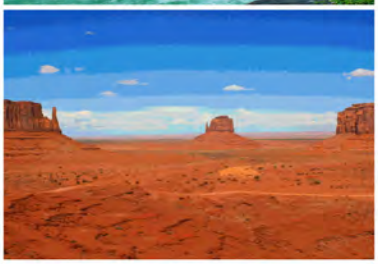
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E404119
Job Number:	23003-0001
Received:	4/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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

Date Reported: 4/19/24

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

Project Name: Abe 1 TB
Workorder: E404119
Date Received: 4/15/2024 9:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/15/2024 9:30:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/19/24 14:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS10 -6"	E404119-01A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS11 -6"	E404119-02A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS12 -6"	E404119-03A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS14 -6"	E404119-04A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS15 -6"	E404119-05A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS17 -6"	E404119-06A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS18 -6"	E404119-07A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS10 -6"

E404119-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.0 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*97.4 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416082
Chloride	**95.0**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS11 -6''

E404119-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416082
Chloride	**251**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS12 -6''

E404119-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416082
Chloride	**368**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS14 -6''

E404119-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416082
Chloride	**321**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS15 -6''

E404119-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416082
Chloride	**231**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS17 -6''

E404119-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416082
Chloride	**299**	20.0	1	04/17/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

FS18 -6''

E404119-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.9 %*	*70-130*	*04/15/24*	*04/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*04/18/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416082
Chloride	**492**	20.0	1	04/17/24	04/19/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

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
Blank (2416023-BLK1)									Prepared: 04/15/24 Analyzed: 04/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.49*		*8.00*		*93.6*	*70-130*			
LCS (2416023-BS1)									Prepared: 04/15/24 Analyzed: 04/16/24
Benzene	4.91	0.0250	5.00		98.1	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	4.94	0.0250	5.00		98.9	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.91	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			
Matrix Spike (2416023-MS1)				**Source: E404119-06**					Prepared: 04/15/24 Analyzed: 04/16/24
Benzene	4.94	0.0250	5.00	ND	98.8	54-133			
Ethylbenzene	4.87	0.0250	5.00	ND	97.3	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	4.93	0.0250	5.00	ND	98.6	63-131			
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.3*	*70-130*			
Matrix Spike Dup (2416023-MSD1)				**Source: E404119-06**					Prepared: 04/15/24 Analyzed: 04/16/24
Benzene	5.04	0.0250	5.00	ND	101	54-133	1.91	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.7	61-133	2.36	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	2.25	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	2.56	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	2.28	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	2.37	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.49*		*8.00*		*93.7*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416023-BLK1)									Prepared: 04/15/24 Analyzed: 04/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.00*		*8.00*		*87.4*	*70-130*			
LCS (2416023-BS2)									Prepared: 04/15/24 Analyzed: 04/16/24
Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		*8.00*		*88.2*	*70-130*			
Matrix Spike (2416023-MS2)				**Source: E404119-06**					Prepared: 04/15/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.94*		*8.00*		*86.8*	*70-130*			
Matrix Spike Dup (2416023-MSD2)				**Source: E404119-06**					Prepared: 04/15/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130	0.379	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.97*		*8.00*		*87.1*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416091-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.1*		*50.0*		*112*	*50-200*			
LCS (2416091-BS1)									Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: n-Nonane	*60.3*		*50.0*		*121*	*50-200*			
Matrix Spike (2416091-MS1)				**Source: E404119-03**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*59.3*		*50.0*		*119*	*50-200*			
Matrix Spike Dup (2416091-MSD1)				**Source: E404119-03**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132	2.94	20	
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/19/2024 2:45:45PM

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 (2416082-BLK1)								Prepared: 04/17/24	Analyzed: 04/19/24
Chloride	ND	20.0							
LCS (2416082-BS1)								Prepared: 04/17/24	Analyzed: 04/19/24
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2416082-MS1)				**Source: E404119-03**				Prepared: 04/17/24	Analyzed: 04/19/24
Chloride	647	20.0	250	368	112	80-120			
Matrix Spike Dup (2416082-MSD1)				**Source: E404119-03**				Prepared: 04/17/24	Analyzed: 04/19/24
Chloride	645	20.0	250	368	111	80-120	0.227	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/19/24 14:45

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.

Project Information

Chain of Custody

Client:	Matador Production Company
Project:	Abe 1 TB
Project Manager:	Ashley Giovengo
Address:	3122 National Parks Hwy
City, State, Zip:	Carlsbad NM, 88220
Phone:	575-988-0055
Email:	agiovengo@ensolum.com
Report due by:	

Bill To

Attention:	Ensolum LLC
Address:	on file
City, State, Zip:	
Phone:	575-988-0055
Email:	agiovengo@ensolum.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E404119	23003-0001				x		
							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH		BGDOC NM		GDOC TX		Remarks
11:46	4/11/2024	Soil	1	FS10 - 6"	1								x				
11:47	4/11/2024	Soil	1	FS11 - 6"	2								x				
11:50	4/11/2024	Soil	1	FS12 - 6"	3								x				
11:52	4/11/2024	Soil	1	FS14 - 6"	4								x				
11:53	4/11/2024	Soil	1	FS15 - 6"	5								x				
11:55	4/11/2024	Soil	1	FS17 - 6"	6								x				
11:56	4/11/2024	Soil	1	FS18 - 6"	7								x				

Analysis and Method

State					
NM	CO	UT	AZ	TX	
x					

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

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

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
[signature]	4/12/24	10:15	Michelle Gonzales	4-12-24	1015
Michelle Gonzales	4-12-24	1615	Andrew Ebbo	4-13-24	1800
Andrew Ebbo	4-13-24	2400	[signature]	4/15/24	930

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 4/16/2024 10:49:33AM

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:	04/15/24 09:30	Work Order ID:	E404119
Phone:	(972) 371-5200	Date Logged In:	04/13/24 10:19	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	04/19/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration 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

Client Instruction

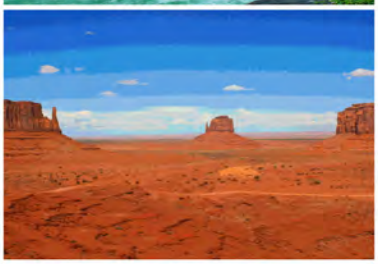
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E404131
Job Number:	23003-0001
Received:	4/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/22/24

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

Date Reported: 4/22/24

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

Project Name: Abe 1 TB
Workorder: E404131
Date Received: 4/16/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/16/2024 8:30:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding 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

Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/22/24 13:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-1'	E404131-01A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS03-1'	E404131-02A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS04-1'	E404131-03A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS05-1'	E404131-04A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS08-1'	E404131-05A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS09-1'	E404131-06A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS13-1'	E404131-07A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS16-1'	E404131-08A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS19-1'	E404131-09A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS20-1'	E404131-10A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS21-1'	E404131-11A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS22-1'	E404131-12A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS23-1'	E404131-13A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS24-1'	E404131-14A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS25-1'	E404131-15A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS26-1'	E404131-16A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS27-1'	E404131-17A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS28-1'	E404131-18A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS29-1'	E404131-19A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS01-1'

E404131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/18/24	
Toluene	ND	0.0250	1	04/16/24	04/18/24	
o-Xylene	ND	0.0250	1	04/16/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*04/16/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*04/16/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*86.7 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**308**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS03-1'

E404131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/18/24	
Toluene	ND	0.0250	1	04/16/24	04/18/24	
o-Xylene	ND	0.0250	1	04/16/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.4 %*	*70-130*	*04/16/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*04/16/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*84.0 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**92.8**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS04-1'

E404131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*82.7 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**27.6**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS05-1'

E404131-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*84.5 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**31.1**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS08-1'

E404131-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*95.1 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**74.0**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS09-1'

E404131-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*98.5 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**34.3**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS13-1'

E404131-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	ND	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS16-1'

E404131-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**121**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS19-1'

E404131-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*97.8 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**27.0**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS20-1'

E404131-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**45.2**	20.0	1	04/18/24	04/18/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS21-1'

E404131-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*95.4 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**34.9**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS22-1'

E404131-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**52.1**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS23-1'

E404131-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**44.1**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS24-1'

E404131-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*92.7 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**72.7**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS25-1'

E404131-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*88.8 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**49.2**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS26-1'

E404131-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*94.3 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**37.2**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS27-1'

E404131-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*97.8 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**28.9**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS28-1'

E404131-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**41.2**	20.0	1	04/18/24	04/19/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

FS29-1'

E404131-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*04/16/24*	*04/19/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*94.5 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2416101
Chloride	**92.1**	20.0	1	04/18/24	04/19/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

Volatile Organics by EPA 8021B

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
Blank (2416058-BLK1)									Prepared: 04/16/24 Analyzed: 04/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.19*		*8.00*		*89.9*	*70-130*			
LCS (2416058-BS1)									Prepared: 04/16/24 Analyzed: 04/18/24
Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.23*		*8.00*		*90.4*	*70-130*			
Matrix Spike (2416058-MS1)				**Source: E404131-02**					Prepared: 04/16/24 Analyzed: 04/18/24
Benzene	4.96	0.0250	5.00	ND	99.3	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.23*		*8.00*		*90.4*	*70-130*			
Matrix Spike Dup (2416058-MSD1)				**Source: E404131-02**					Prepared: 04/16/24 Analyzed: 04/18/24
Benzene	5.07	0.0250	5.00	ND	101	54-133	2.09	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	2.11	20	
Toluene	5.13	0.0250	5.00	ND	103	61-130	2.24	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	2.36	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.13	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	2.21	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.35*		*8.00*		*91.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

Nonhalogenated Organics by EPA 8015D - GRO

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
Blank (2416058-BLK1)									Prepared: 04/16/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.17*		*8.00*		*89.7*	*70-130*			
LCS (2416058-BS2)									Prepared: 04/16/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.8*	*70-130*			
Matrix Spike (2416058-MS2)				**Source: E404131-02**					Prepared: 04/16/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.29*		*8.00*		*91.1*	*70-130*			
Matrix Spike Dup (2416058-MSD2)				**Source: E404131-02**					Prepared: 04/16/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	82.9	70-130	1.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.31*		*8.00*		*91.4*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416094-BLK1)									Prepared: 04/18/24 Analyzed: 04/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.4*		*50.0*		*98.9*	*50-200*			
LCS (2416094-BS1)									Prepared: 04/18/24 Analyzed: 04/19/24
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	*48.4*		*50.0*		*96.7*	*50-200*			
Matrix Spike (2416094-MS1)				**Source: E404131-05**					Prepared: 04/18/24 Analyzed: 04/19/24
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	*52.6*		*50.0*		*105*	*50-200*			
Matrix Spike Dup (2416094-MSD1)				**Source: E404131-05**					Prepared: 04/18/24 Analyzed: 04/19/24
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	1.15	20	
Surrogate: n-Nonane	*52.7*		*50.0*		*105*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:25:57PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416101-BLK1)								Prepared: 04/18/24	Analyzed: 04/18/24
Chloride	ND	20.0							
LCS (2416101-BS1)								Prepared: 04/18/24	Analyzed: 04/18/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2416101-MS1)				**Source: E404131-07**				Prepared: 04/18/24	Analyzed: 04/18/24
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2416101-MSD1)				**Source: E404131-07**				Prepared: 04/18/24	Analyzed: 04/18/24
Chloride	262	20.0	250	ND	105	80-120	1.35	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/22/24 13:25

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

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

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

Project Information

Chain of Custody

Project Information	Bill To	Lab Use Only	
Client: Matador Production Company	Attention: Ensolum LLC	Lab WO# E404131	Job Number 23003-0001
Project: Abe 1 TB	Address: on file		
Project Manager: Ashley Giovengo	City, State, Zip:		
Address: 3122 National Parks Hwy	Phone: 575-988-0055		
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com		
Phone: 575-988-0055			
Email: agiovengo@ensolum.com			
Report due by:			

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			x		
					RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH		BGDOC NM		GDOC TX		Remarks
13:49	4/12/2024	Soil	1	FS01 - 1'	1								X				
13:29	4/12/2024	Soil	1	FS03 - 1'	2								X				
13:22	4/12/2024	Soil	1	FS04 - 1'	3								X				
13:20	4/12/2024	Soil	1	FS05 - 1'	4								X				
11:03	4/12/2024	Soil	1	FS08 - 1'	5								X				
11:00	4/12/2024	Soil	1	FS09 - 1'	6								X				
11:07	4/12/2024	Soil	1	FS13 - 1'	7								X				
11:10	4/12/2024	Soil	1	FS16 - 1'	8								X				
13:22	4/12/2024	Soil	1	FS19 - 1'	9								X				
13:25	4/12/2024	Soil	1	FS20 - 1'	10								X				

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

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

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
[signature]	4/15/24	9:45	Michelle Gonzales	4.15.24	0945
Michelle Gonzales	4.15.24	1620	[signature]	4.15.24	1800
[signature]	4.15.24	2400	[signature]	4/16/24	830

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Project Information

Chain of Custody

Project Information	Bill To	Lab Use Only	TAT	EPA Program
Client: Matador Production Company	Attention: Ensolum LLC	Lab WO# E404131 / Job Number 23003-0001	1D 2D 3D Standard: x	CWA / SDWA / RCRA
Project: Abe 1 TB	Address: on file			
Project Manager: Ashley Giovengo	City, State, Zip:			
Address: 3122 National Parks Hwy	Phone: 575-988-0055			
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com			
Phone: 575-988-0055				
Email: agiovengo@ensolum.com				
Report due by:				

Analysis and Method

State: NM x, CO, UT, AZ, TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH		BGDOC NM		GDOC TX		Remarks
13:27	4/12/2024	Soil	1	FS21 - 1'	11								X				
11:12	4/12/2024	Soil	1	FS22 - 1'	12								X				
11:14	4/12/2024	Soil	1	FS23 - 1'	13								X				
11:16	4/12/2024	Soil	1	FS24 - 1'	14								X				
11:18	4/12/2024	Soil	1	FS25 - 1'	15								X				
11:20	4/12/2024	Soil	1	FS26 - 1'	16								X				
13:13	4/12/2024	Soil	1	FS27 - 1'	17								X				
12:27	4/12/2024	Soil	1	FS28 - 1'	18								X				
12:30	4/12/2024	Soil	1	FS29 - 1'	19								X				

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

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

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
[signature]	4/15/24	9:45	Michelle Gonzales	4-15-24	0945
Michelle Gonzales	4-15-24	1620	[signature]	4.15.24	1800
[signature]	4.15.24	2400	[signature]	4/16/24	830

Lab Use Only

Received on ice: (Y) N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 4/16/2024 1:48:26PM

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:	04/16/24 08:30	Work Order ID:	E404131
Phone:	(972) 371-5200	Date Logged In:	04/16/24 09:09	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	04/22/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC Yes
3. Were samples dropped off by client or carrier? Yes Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes
   Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
    Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filteration 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

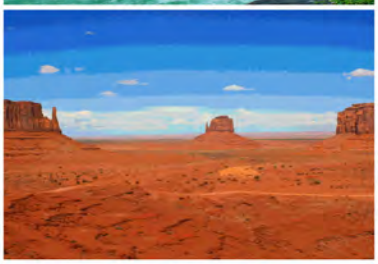
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Giovengo



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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E404140
Job Number:	23003-C-0001
Received:	4/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/22/24

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

Project Name: Abe 1 TB
Workorder: E404140
Date Received: 4/17/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/17/2024 8:00:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/22/24 13:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 - 1.5'	E404140-01A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS06 - 1.5'	E404140-02A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS07 - 1.5'	E404140-03A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW01 - 1'	E404140-04A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW02 - 1'	E404140-05A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW03 - 1'	E404140-06A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

FS02 - 1.5'

E404140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*99.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*99.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**76.5**	20.0	1	04/17/24	04/20/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

FS06 - 1.5'

E404140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**87.2**	20.0	1	04/17/24	04/20/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

FS07 - 1.5'

E404140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**52.4**	20.0	1	04/17/24	04/20/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

SW01 - 1'

E404140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**163**	20.0	1	04/17/24	04/20/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

SW02 - 1'

E404140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**65.0**	20.0	1	04/17/24	04/20/24	

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

SW03 - 1'

E404140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*97.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416084
Chloride	**83.4**	20.0	1	04/17/24	04/20/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

Volatile Organic Compounds by EPA 8260B

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
Blank (2416059-BLK1)									Prepared: 04/16/24 Analyzed: 04/17/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
LCS (2416059-BS1)									Prepared: 04/16/24 Analyzed: 04/17/24
Benzene	2.75	0.0250	2.50		110	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		102	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.67	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.4*	*70-130*			
Matrix Spike (2416059-MS1)				**Source: E404135-02**					Prepared: 04/16/24 Analyzed: 04/17/24
Benzene	2.72	0.0250	2.50	ND	109	48-131			
Ethylbenzene	2.59	0.0250	2.50	ND	103	45-135			
Toluene	2.51	0.0250	2.50	ND	100	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.4*	*70-130*			
Matrix Spike Dup (2416059-MSD1)				**Source: E404135-02**					Prepared: 04/16/24 Analyzed: 04/17/24
Benzene	2.80	0.0250	2.50	ND	112	48-131	2.90	23	
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135	3.83	27	
Toluene	2.60	0.0250	2.50	ND	104	48-130	3.60	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	4.53	27	
p,m-Xylene	5.37	0.0500	5.00	ND	107	43-135	5.03	27	
Total Xylenes	8.13	0.0250	7.50	ND	108	43-135	4.86	27	
Surrogate: Bromofluorobenzene	*0.508*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.4*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

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
Blank (2416059-BLK1)								Prepared: 04/16/24 Analyzed: 04/17/24	
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
LCS (2416059-BS2)								Prepared: 04/16/24 Analyzed: 04/17/24	
Gasoline Range Organics (C6-C10)	58.4	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	*0.519*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*0.503*		*0.500*		*101*	*70-130*			
Matrix Spike (2416059-MS2)				**Source: E404135-02**				Prepared: 04/16/24 Analyzed: 04/17/24	
Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.8*	*70-130*			
Surrogate: Toluene-d8	*0.501*		*0.500*		*100*	*70-130*			
Matrix Spike Dup (2416059-MSD2)				**Source: E404135-02**				Prepared: 04/16/24 Analyzed: 04/17/24	
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	2.79	20	
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.8*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*100*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416091-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.1*		*50.0*		*112*	*50-200*			
LCS (2416091-BS1)									Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: n-Nonane	*60.3*		*50.0*		*121*	*50-200*			
Matrix Spike (2416091-MS1)				**Source: E404119-03**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*59.3*		*50.0*		*119*	*50-200*			
Matrix Spike Dup (2416091-MSD1)				**Source: E404119-03**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132	2.94	20	
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:29:25PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416084-BLK1)									Prepared: 04/17/24 Analyzed: 04/19/24
Chloride	ND	20.0							
LCS (2416084-BS1)									Prepared: 04/17/24 Analyzed: 04/19/24
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2416084-MS1)				**Source: E404135-05**					Prepared: 04/17/24 Analyzed: 04/19/24
Chloride	248	20.0	250	ND	99.4	80-120			
Matrix Spike Dup (2416084-MSD1)				**Source: E404135-05**					Prepared: 04/17/24 Analyzed: 04/19/24
Chloride	252	20.0	250	ND	101	80-120	1.51	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/22/24 13:29

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.

Project Information

Chain of Custody

Client: Matador Production Company	
Project: Abe 1 TB	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention: Ensolum LLC
Address: on file
City, State, Zip:
Phone: 575-988-0055
Email: agiovengo@ensolum.com

Lab Use Only

Lab WO#: E404140
Job Number: 23003-C-0001

TAT: 1D | 2D | 3D | Standard: x

EPA Program: CWA | SDWA | RCRA

State: NM: x | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH		BGDOC NM		GDOC TX		Remarks
10:31	4/15/2024	Soil	1	FS02 - 1.5'	1								x				
10:30	4/15/2024	Soil	1	FS06 - 1.5'	2								x				
10:28	4/15/2024	Soil	1	FS07 - 1.5'	3								x				
10:40	4/15/2024	Soil	1	SW01 - 1'	4								x				
11:05	4/15/2024	Soil	1	SW02 - 1'	5								x				
11:07	4/15/2024	Soil	1	SW03 - 1'	6								x				

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

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

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
Stacy Beck	4-16-24	1115	Michelle Gonzales	4-16-24	1115
Michelle Gonzales	4-16-24	1620	Andrew Madd	4.16.24	1800
Andrew Madd	4.16.24	2400	[illegible]	4/17/24	0800

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 4/17/2024 10:38:34AM

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:	04/17/24 08:00	Work Order ID:	E404140
Phone:	(972) 371-5200	Date Logged In:	04/16/24 16:28	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	04/23/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration 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.

ENSOLUM

APPENDIX F

Email Correspondence

From: Jason Touchet
To: Ashley Giovengo
Cc: Clinton Talley
Subject: 48-hour Confirmation Sampling Notification Email - ABE 1 - nAPP2406265359 for Dates 4/11, 4/12, 4/15
Date: Friday, April 12, 2024 10:39:58 AM

[**EXTERNAL EMAIL**]

EXTERNAL EMAIL
To whom it may concern (c/o Jason Touchet for MATADOR PRODUCTION COMPANY),
The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2406265359.

The sampling event is expected to take place:

When: 04/11/2024 @ 09:00
Where: L-28-21S-33E 0 FNL 0 FEL (32.44503,-103.57516)

Additional Information: Off-pad area on the NE corner of the location.

Additional Instructions: (32.44503, -103.57516

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Thanks,
Jason Touchet
EHS Field Techician
Matador Resources Company
Cell: 337-652-3463
Email: jason.touchet@matadorresources.com

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 343603

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2406265359**
Incident Name	**NAPP2406265359 ABE 1 TB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	ABE 1 TB
Date Release Discovered	03/02/2024
Surface Owner	Private

Incident Details *Please answer all the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Normal Operations | Pipeline (Any) | Produced Water | Released: 21 BBL | Recovered: 0 BBL | Lost: 21 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
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: 05/14/2024

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	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 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	04/15/2024
On what date will (or did) the final sampling or liner inspection occur	04/08/2024
On what date will (or was) the remediation complete(d)	04/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	5617
What is the estimated volume (in cubic yards) that will be reclaimed	320
What is the estimated surface area (in square feet) that will be remediated	5617
What is the estimated volume (in cubic yards) that will be remediated	320
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 (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	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	R360
(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: 05/14/2024

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**332925**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/15/2024**
What was the (estimated) number of samples that were to be gathered	**31**
What was the sampling surface area in square feet	**5617**

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	5617
What was the total volume (cubic yards) remediated	320
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	5617
What was the total volume (in cubic yards) reclaimed	320
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/14/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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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 (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 343603

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2406265359 ABE 1 TB, thank you. This Remediation Closure Report is approved. The Site Assessment/Characterization is incorrect. The site is located in a “Freshwater Emergent Wetland” and needed to be remediated to the strictest closure criteria. Just something to keep your eye on in the future.	5/20/2024

ENSOLUM

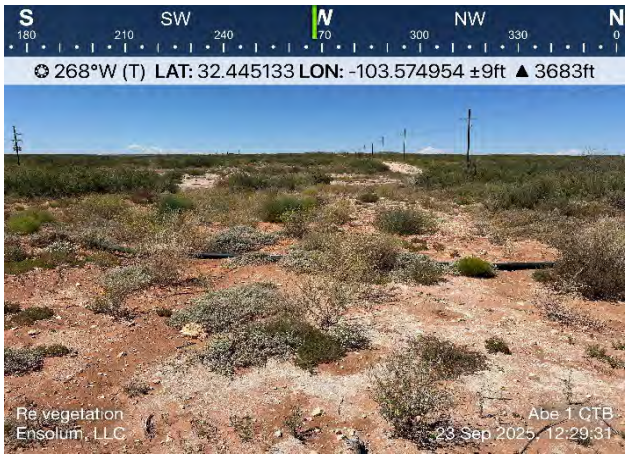
APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
Matador Production Company
ABE 1 TB
Incident Number: nAPP2406265359

Photograph 1 Date: 09/23/2025
Description: Re-vegetation
View: Southwest



Photograph 2 Date: 09/23/2025
Description: Re-vegetation
View: West

Photograph 3 Date: 09/23/2025
Description: Re-vegetation
View: South

Photograph 4 Date: 09/23/2025
Description: Re-vegetation
View: Southeast

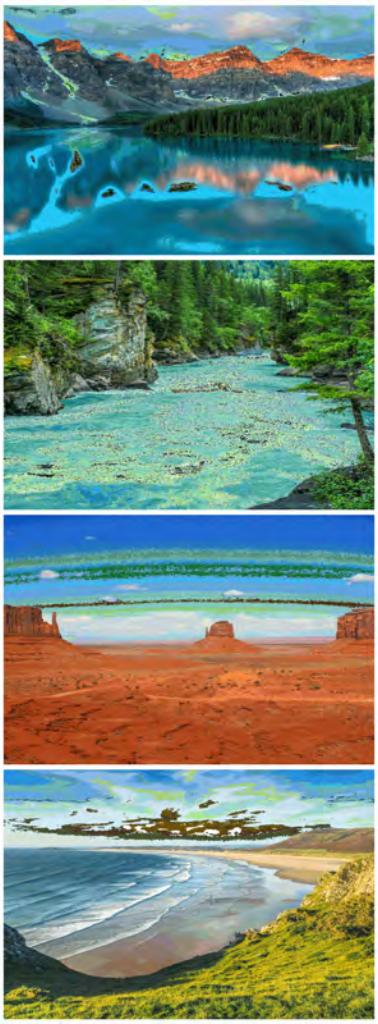
ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Abe 1 TB
Work Order:	E509279
Job Number:	23003-0002
Received:	9/25/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/20/25

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: 10/20/25

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

Project Name: Abe 1 TB
Workorder: E509279
Date Received: 9/25/2025 6:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/25/2025 6:00:56AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 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 reguarding 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)
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ljarboe@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

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/25 12:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BF01	E509279-01A	Soil	09/23/25	09/25/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 12:58:58PM

BF01

E509279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2539128
Benzene	ND	0.0250	1	09/25/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/25/25	09/25/25	
Toluene	ND	0.0250	1	09/25/25	09/25/25	
o-Xylene	ND	0.0250	1	09/25/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/25/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/25/25	09/25/25	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*	*70-130*	*09/25/25*	*09/25/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2539128
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/25	09/25/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*09/25/25*	*09/25/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2539148
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/25	09/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/25	09/27/25	
Surrogate: n-Nonane		*88.1 %*	*61-141*	*09/26/25*	*09/27/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP			Batch: 2539165
Chloride	ND	20.0	1	09/26/25	09/27/25	

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 12:58:58PM

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
Blank (2539128-BLK1)									Prepared: 09/25/25 Analyzed: 09/25/25
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	*8.75*		*8.00*		*109*	*70-130*			
LCS (2539128-BS1)									Prepared: 09/25/25 Analyzed: 09/25/25
Benzene	4.34	0.0250	5.00		86.8	70-130			
Ethylbenzene	4.36	0.0250	5.00		87.3	70-130			
Toluene	4.33	0.0250	5.00		86.7	70-130			
o-Xylene	4.47	0.0250	5.00		89.4	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.4	0.0250	15.0		89.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.99*		*8.00*		*112*	*70-130*			
Matrix Spike (2539128-MS1)				**Source: E509275-04**					Prepared: 09/25/25 Analyzed: 09/25/25
Benzene	4.54	0.0250	5.00	ND	90.7	70-130			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	70-130			
Toluene	4.52	0.0250	5.00	ND	90.4	70-130			
o-Xylene	4.63	0.0250	5.00	ND	92.6	70-130			
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	70-130			
Total Xylenes	13.9	0.0250	15.0	ND	92.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.84*		*8.00*		*110*	*70-130*			
Matrix Spike Dup (2539128-MSD1)				**Source: E509275-04**					Prepared: 09/25/25 Analyzed: 09/25/25
Benzene	4.20	0.0250	5.00	ND	84.1	70-130	7.61	27	
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	70-130	6.95	26	
Toluene	4.20	0.0250	5.00	ND	84.0	70-130	7.32	20	
o-Xylene	4.32	0.0250	5.00	ND	86.4	70-130	7.00	25	
p,m-Xylene	8.64	0.0500	10.0	ND	86.4	70-130	6.85	23	
Total Xylenes	13.0	0.0250	15.0	ND	86.4	70-130	6.90	26	
Surrogate: 4-Bromochlorobenzene-PID	*8.94*		*8.00*		*112*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 12:58:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2539128-BLK1)									Prepared: 09/25/25 Analyzed: 09/25/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.08*		*8.00*		*88.5*	*70-130*			
LCS (2539128-BS2)									Prepared: 09/25/25 Analyzed: 09/25/25
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.22*		*8.00*		*90.3*	*70-130*			
Matrix Spike (2539128-MS2)				**Source: E509275-04**					Prepared: 09/25/25 Analyzed: 09/25/25
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.13*		*8.00*		*89.2*	*70-130*			
Matrix Spike Dup (2539128-MSD2)				**Source: E509275-04**					Prepared: 09/25/25 Analyzed: 09/25/25
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	10.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.19*		*8.00*		*89.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 12:58:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2539148-BLK1)									Prepared: 09/26/25 Analyzed: 09/26/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.9*		*50.0*		*102*	*61-141*			
LCS (2539148-BS1)									Prepared: 09/26/25 Analyzed: 09/27/25
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	66-144			
Surrogate: n-Nonane	*45.2*		*50.0*		*90.5*	*61-141*			
Matrix Spike (2539148-MS1)				**Source: E509271-06**					Prepared: 09/26/25 Analyzed: 09/27/25
Diesel Range Organics (C10-C28)	460	25.0	250	173	115	56-156			
Surrogate: n-Nonane	*48.5*		*50.0*		*96.9*	*61-141*			
Matrix Spike Dup (2539148-MSD1)				**Source: E509271-06**					Prepared: 09/26/25 Analyzed: 09/27/25
Diesel Range Organics (C10-C28)	408	25.0	250	173	94.0	56-156	12.1	20	
Surrogate: n-Nonane	*45.8*		*50.0*		*91.6*	*61-141*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Abe 1 TB	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 12:58:58PM

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
Blank (2539165-BLK1)								Prepared: 09/26/25	Analyzed: 09/26/25
Chloride	ND	20.0							
LCS (2539165-BS1)								Prepared: 09/26/25	Analyzed: 09/26/25
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2539165-MS1)				**Source: E509268-02**				Prepared: 09/26/25	Analyzed: 09/26/25
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2539165-MSD1)				**Source: E509268-02**				Prepared: 09/26/25	Analyzed: 09/26/25
Chloride	255	20.0	250	ND	102	80-120	0.114	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Abe 1 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/25 12:58

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

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

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

envirote Analytical Lab

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Matador Production Company	Company: Ensolum LLC	Lab WO#: E509279	1D / 2D / 3D / Std: x	NM / CO / UT / TX: x
Project Name: Abe 1 CTB	Address: 3122 National Parks Hwy	Job Number: 23003-0002		
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				

EPA Program: SDWA / CWA / RCRA

Compliance: Y or N

PWSID #

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		Samle Temp	Remarks
9:55	9/23/2025	Soil	1	BF01		1									X			3.9	

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
[signature]	9/24/25	7:11	Michelle Gonzales	9.24.25	0711
Michelle Gonzales	9.24.25	1400	Marissa Gonzales	9-24-25	1400
Marissa Gonzales	9-24-25	1920	Andrew Musso	9.24.25	1920
Andrew Musso	9.24.25	2400	[signature]	9-25-25	0600
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

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: 9/25/2025 9:00:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	09/25/25 06:00	Work Order ID:	E509279
Phone:	(972) 371-5200	Date Logged In:	09/24/25 14:57	Logged In By:	Joslyn Meidinger
Email:	agiovengo@ensolum.com	Due Date:	10/01/25 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time?	Yes	
Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.		

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.

envirote Analytical Lab

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: ~~Abe 1 CTB~~ Abe 1 TB NS 10-20-25	Address: 3122 National Parks Hwy	E509279	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

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		Samle Temp	Remarks
9:55	9/23/2025	Soil	1	BF01		1									X			3.9	Changed project name per Client. NS 10-20-25

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

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
[signature]	9/24/25	7:11	Michelle Gonzales	9.24.25	0711
Relinquished by: (Signature) Michelle Gonzales	9.24.25	1400	Received by: (Signature) Mariaca Gonzales	9-24-25	1400
Relinquished by: (Signature) Mariaca Gonzales	9-24-25	1920	Received by: (Signature) Andrew Musso	9.24.25	1920
Relinquished by: (Signature) Andrew Musso	9.24.25	2400	Received by: (Signature) [signature]	9-25-25	0600
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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Lab Use Only

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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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APPENDIX D

Re-vegetaion Report

ENSOLUM

October 1, 2025

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico, 87501

Re: Vegetation Assessment
Abe 1 Tank Battery
Lea County, New Mexico
Lease Number: V084260001

To Whom It May Concern,

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared the following *Vegetation Assessment* for the Abe 1 Tank Battery (Site). This *Vegetation Assessment* documents the Site history and details the final reclamation efforts undertaken to restore the area to conditions consistent with the native vegetation and surrounding environment.

SITE INFORMATION

Operator: Matador Production Company

Site Name: Abe 1 Tank Battery

GPS Coordinates: 32.44503, -103.57516

Location: Unit O, Section 28, Township 21S, Range 33E, Lea County, New Mexico

Landowner: New Mexico State Land Office (NMSLO)

SITE HISTORY

The Abe 1 Tank Battery site is an area where one spill occurred on March 2, 2024, involving the release of approximately 21 barrels (bbls) of produced water. According to the NMOCD Incident Number nAPP2406265359, this incident was approved for closure on May 20, 2024. Historical satellite imagery, which was not up to date, indicated surface reclamation of the Site was complete. Field reconnaissance verified that the Site had been successfully revegetated.

SITE RECONNAISSANCE & ENVIRONMENTAL CONDITIONS

A Site visit was conducted on July 24, 2025, to evaluate current Site conditions. The objective of the reconnaissance was to document the status of reclamation, assess the condition of vegetation and surface features, and identify any environmental concerns such as erosion, surface staining, or the presence of debris. Observations were made regarding Site access, topography, vegetation re-establishment, and any remaining infrastructure. In addition, relevant soil classification data and environmental considerations - such as biological, cultural, and hydrological sensitivities - were reviewed to confirm compliance with reclamation and land management requirements.

Photographic documentation from the Site visit is included in Appendix A, and a Site Location Map depicting access routes is provided as Figure 1. The findings from the Site visit and related reviews are summarized below.

SITE CONDITIONS

The Site was accessed from the adjacent well pad to the south. During the Site visit, no surface production equipment, trash, or debris was observed. The area of the spill had been recontoured and reclaimed to match the surrounding topography. Native vegetation was established within the area of impact, indicating successful revegetation. No evidence of surface staining, erosion issues, or the presence of noxious weeds was identified during the inspection.

The surrounding terrain consists of gently rolling topography with a slope to the southeast. Land use in the area remains primarily native rangeland, supporting both livestock grazing and oil and gas operations.

SOIL CHARACTERISTICS

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey, the soil type present at the Site is classified as Jal Association. This soil unit is characterized by well-drained, loamy textures with minimal slope and is commonly found in areas utilized for rangeland and energy development. Summary of Jal Association:

- Typical Soil Profile
    - 0 to 12 inches: Sandy loam
    - 12 to 60 inches: Loam
- Properties
    - Slope: 0 to 3 percent slopes
    - Depth to restrictive feature: More than 80 inches
    - Drainage Class: Well drained
    - Runoff class: Low

The physical properties of the Jal Association support effective surface water infiltration and minimize runoff, making it generally suitable for reclamation and revegetation efforts. The absence of shallow restrictive features and the well-drained nature of the soil enhance the likelihood of successful native vegetation reestablishment across the reclaimed well pad.

CULTURAL & BIOLOGICAL REVIEW

The objective of the reclamation activities at the Site is to restore habitat structure, vegetation cover, and species composition to conditions comparable to those present prior to disturbance. All reclamation work has been confined to previously disturbed areas within the well pad and associated access road. Native vegetation outside of the pad footprint will continue to remain undisturbed throughout the reclamation process.

In the event that surface-disturbing activities extend beyond previously impacted areas, all actions will comply with the Cultural Properties Protection (CPP) Rule to ensure proper identification and protection of any cultural or historical resources.

Based on a review of U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) resources, no designated critical habitats are present at the Site. Although certain threatened and endangered bird and cactus species may occur in the region, no impact on these species is anticipated, as native vegetation outside the well pad boundary will not be disturbed.

The Site is located within the historical range of the Lesser Prairie Chicken (LPC) and is outside of any current or historical lek areas. The site does not fall within an NMSLO Candidate Conservation Agreement with Assurances (CCAA) area. Additionally, the Site lies within a region classified as having low potential for karst development, minimizing concerns related to subsurface sensitivity.

No surface water features, wetlands, or other environmentally sensitive receptors are present in the vicinity of the Site. As such, the proposed reclamation activities are not expected to adversely affect sensitive environmental features or soils.

VEGETATION ASSESSMENT

According to NMOCD, once vegetation growth in the reclaimed pasture area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3). The Line-Point Intercept (LPI) method was used to evaluate the vegetative cover across the well pad and access road in comparison to adjacent undisturbed native reference areas. This method was selected to determine whether the reclaimed areas meet or exceed the 70 percent (%) vegetation cover threshold required for final reclamation success, as measured against native baseline conditions. At each assessment location, a 50-foot transect line was established within the most representative portion of both the reclaimed area and its corresponding reference site. Vegetation presence was recorded at 1-foot intervals along each transect. If vegetation was absent at a given point, the location was recorded as bare ground. Global positioning system (GPS) coordinates for each transect were collected using a GPS receiver and Field Maps application. The location of each LPI transect is presented in Figure 3.

Results from the LPI survey indicated the spill impact area exhibited 38% vegetative cover, while the corresponding native reference site exhibited 52% cover. This results in a vegetation establishment of 73% relative to the reference area, exceeding the minimum reclamation requirement of 70%.

The vegetative cover was generally uniform across the Site, and the species present were consistent with the approved seed mix and native to the area. Five out of seven target plant species (71%) were positively identified during the survey.

CONCLUSIONS

Based on the results of the vegetation assessment and field observations, all Site-related reclamation activities have been completed in accordance with regulatory standards and best environmental practices. The spill area has achieved vegetation cover exceeding 70% of their respective native reference areas, meeting the NMSLO threshold for successful reclamation.

In addition to vegetative success, the Site visit confirmed no surface production equipment, debris, surface staining, erosion, or invasive species remain. The spill area has been recontoured to match surrounding topography, and native vegetation is well-established across the disturbed areas. There are

no indications of remaining environmental concerns, sensitive receptors, or adverse impacts to surrounding land uses, which primarily consist of rangeland and oil and gas operations.

Furthermore, reviews of cultural, biological, and soil resources indicate no constraints that would hinder reclamation success or require additional mitigation. Reclamation activities remained within previously disturbed boundaries, and no encroachments into undisturbed areas were observed.

Given the successful completion of all required reclamation efforts and the favorable Site conditions documented during the July 24, 2025 field visit, the Site is considered fully reclaimed in accordance with NMSLO guidelines. No further action is recommended, and the Site is eligible for final closure and release.

If you have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
Ensolum, LLC

Trevor Hartwig
Project Biologist
(303) 817-2989
thartwig@ensolum.com

Tanna Lyon
Senior Environmental Scientist
(970) 509-0947
tlyon@ensolum.com

Appendices:

Figure 1 Site Location Map
Figure 2 Site Topographic Map
Figure 3 LPI Data Map

Appendix A Photographic Log
Appendix B LPI Datasheets

ENSOLUM

Figure 1 – Site Map

Folder: C:\Users\Meagan Tell\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Trevor Hartwig\03A2270033 - Abe 1 TB\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

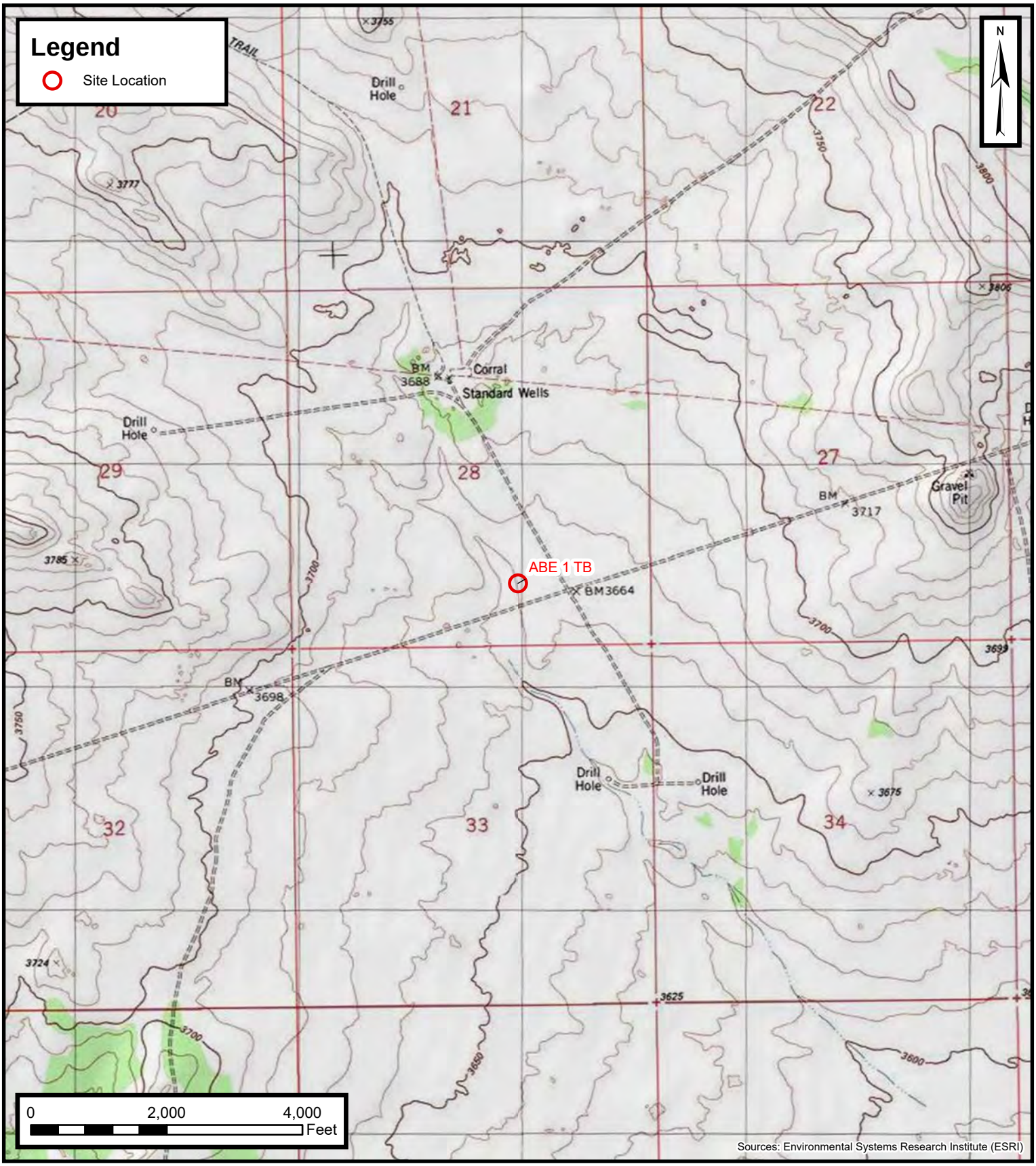
Site Map

Abe 1 TB
Matador Production Company
32.44503,-103.57516
Lea County, NM

FIGURE
1

ENSOLUM

Figure 2 – Site Location Topographic Map



Default Folder: C:\Users\Maegan Tell

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

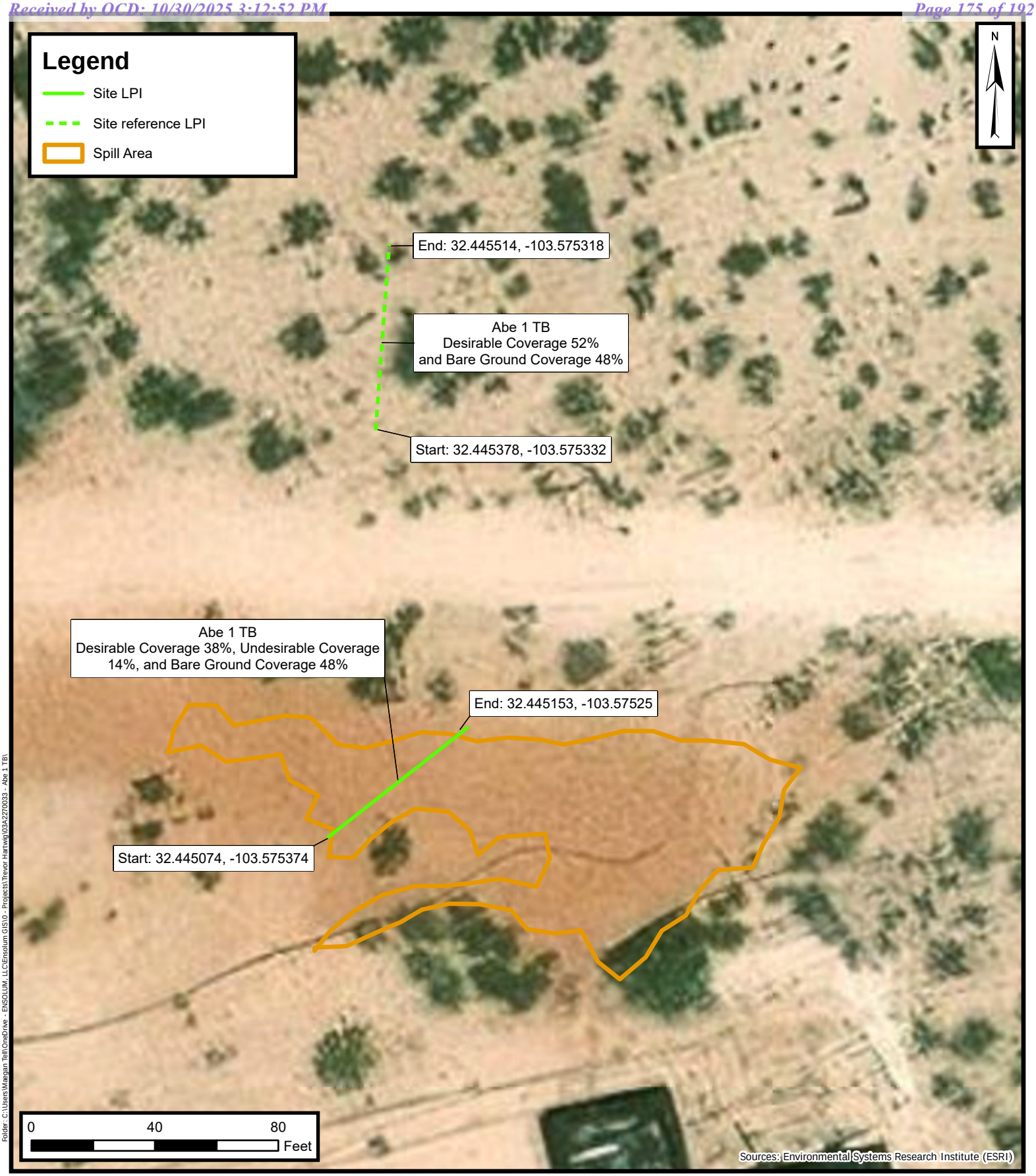
Topographic Map

Abe 1 TB
Matador Production Company
32.44503,-103.57516
Lea County, NM

FIGURE
2

ENSOLUM

Figure 3 – Spill Line Point Survey Data Site Map



Folder: C:\Users\Maegan Tell\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Trevor Hartwig\03A2270033 - Abe 1 TB\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Spill LPI Data

Abe 1 TB
Matador Production Company
32.44503,-103.57516
Lea County, NM

FIGURE
3

ENSOLUM

Appendix A

Photographic Log

Photograph No. 1

Photo Direction:
North

Photo Description:
View north from the spill area.

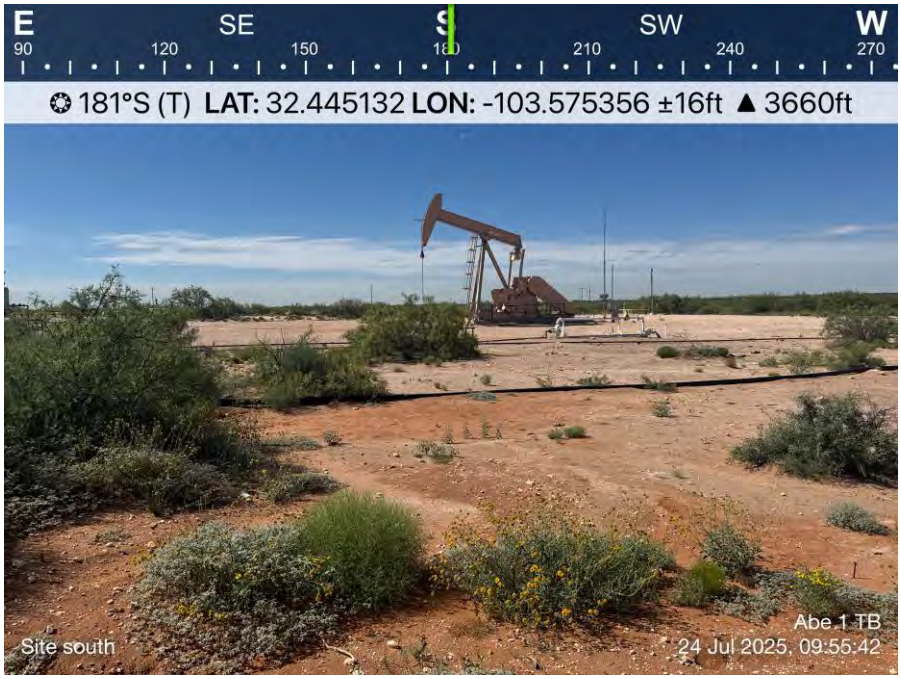
Photo taken:
07/24/2025

Photograph No. 2

Photo Direction:
South

Photo Description:
View south from the spill area.

Photo taken:
07/24/2025

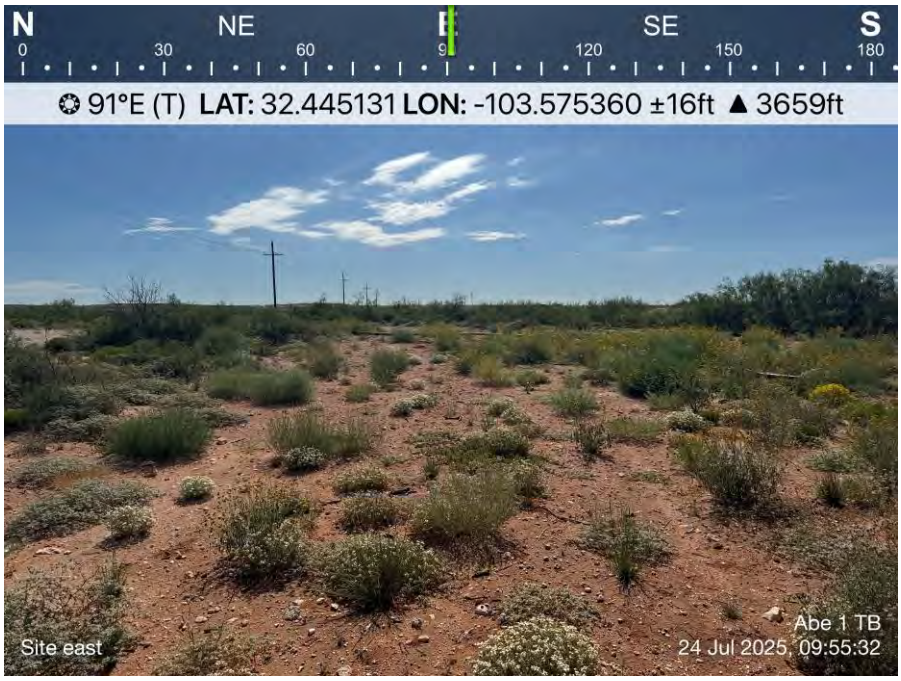


Photograph No. 3

Photo Direction:
East

Photo Description:
View east from the spill area.

Photo taken:
07/24/2025

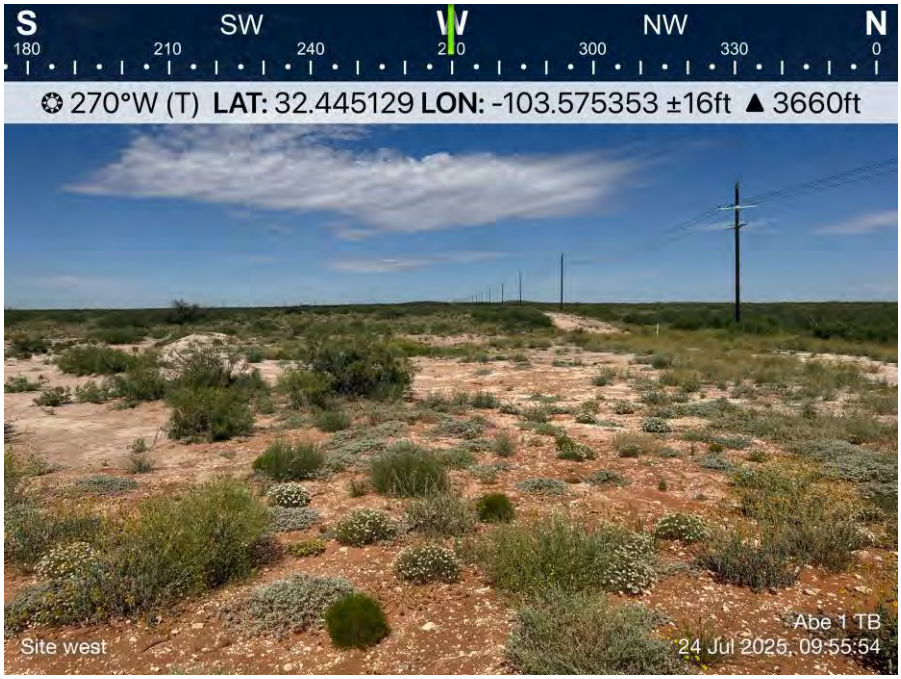


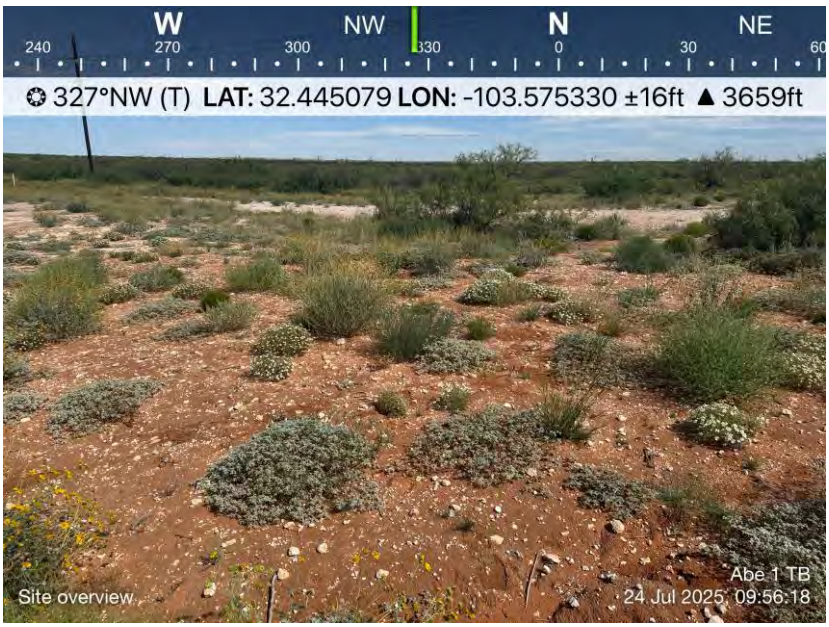
Photograph No. 4

Photo Direction:
West

Photo Description:
View west from the spill area.

Photo taken:
07/24/2025



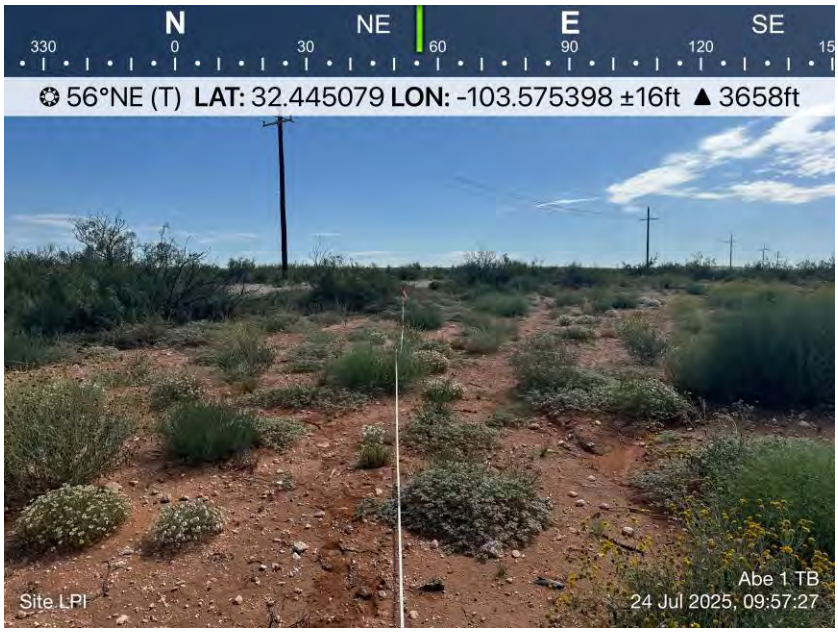


Photograph No. 5

Photo Direction:
North

Photo Description:
Overview of the spill area.

Photo taken:
07/24/2025



Photograph No. 6

Photo Direction:
Southwest

Photo Description:
Overview of LPI for the spill area.

Photo taken:
07/24/2025

Photograph No. 7

Photo Direction:
Southwest

Photo Description:
Overview of reference LPI for the spill area.

Photo taken:
07/24/2025

ENSOLUM

Appendix B

Field Line Point Intercept Data Form

Ensolum Line-point Intercept Data Form

Page 1 of 2

Shaded cells for calculations

Plot: Abe 1 TB Observer: US / TM Type of Line: Site

Direction: 55° Date: 7/24/25 Line Start/Stop Coordinates:

Pt.	Plant Code	Vegetation Class: Desirable	Vegetation Class: Undesirable	Vegetation Class: Noxious	Noxious Class	Pt.	Plant Code	Vegetation Class: Desirable	Vegetation Class: Undesirable	Vegetation Class: Noxious	Noxious Class
1	TILA2	X				26	BG				
2	TILA2	X				27	BG				
3	PSTA	X				28	SEMAS	X			
4	BG					29	BG				
5	SEMAS	X				30	TILA2	X			
6	BG					31	ZIAC	X			
7	BG					32	VEEN	X			
8	BG					33	VEEN	X			
9	BG					34	BG				
10	BG					35	BG				
11	TILA2	X				36	BG				
12	TILA2	X				37	BG				
13	SAKA		X			38	BG				
14	BG					39	TILA2	X			
15	TILA2	X				40	BG				
16	BG					41	BG				
17	BG					42	BG				
18	BG					43	SAKA		X		
19	BG					44	SAKA		X		
20	SAKA		X			45	AMBL		X		
21	SAKA		X			46	TILA2	X			
22	SAKA		X			47	TILA2	X			
23	BG					48	TILA2	X			
24	TILA2	X				49	TILA2	X			
25	BG					50	TILA2	X			

% Desirable Cover = 19 points = 38%

% Undesirable Cover = 7 points = 14%

% Noxious Cover =

% Bare Ground Cover = 24 points = 48%

% Desirable Cover Site= 38%

% Desirable Cover Reference Site= 52

Pass: X Fail: % Difference of Site to Reference: 73%

Plant Code	Common Name
PSTA	woolly paperflower
SEMAS	large-spike bristlegrass
TILA2	woolly tidestromia
SAKA	tumbleweed
ZIAC	desert zinnia
VEEN	golden crownbeard
AMBL	matweed

Ensolum Line-point Intercept Data Form

Page 2 of 2

Shaded cells for calculations

Plot: Abc 1 TB Observer: US/TH Type of Line: Site Reference

Direction: 0° Date: 7/24/25 Line Start/Stop Coordinates:

Pt.	Plant Code	Vegetation Class: Desirable	Vegetation Class: Undesirable	Vegetation Class: Noxious	Noxious Class	Pt.	Plant Code	Vegetation Class: Desirable	Vegetation Class: Undesirable	Vegetation Class: Noxious	Noxious Class
1	TILA2	X				26	BG				
2	TILA2	X				27	GUSA2	X			
3	TILA2	X				28	GUSA2	X			
4	BG					29	BG				
5	GUSA2	X				30	BG				
6	GUSA2	X				31	BG				
7	TILA2	X				32	BG				
8	PRGL2	X				33	BG				
9	PRGL2	X				34	GUSA2	X			
10	GUSA2	X				35	BG				
11	BG					36	GUSA2	X			
12	BG					37	BG				
13	BG					38	BG				
14	GUSA2	X				39	BG				
15	TILA2	X				40	BG				
16	BG					41	BG				
17	PSTA	X				42	BG				
18	BG					43	TILA2	X			
19	TILA2	X				44	PRGL2	X			
20	TILA2	X				45	PRGL2	X			
21	XASP	X				46	PRGL2	X			
22	BG					47	PRGL2	X			
23	BG					48	PRGL2	X			
24	BG					49	TILA2	X			
25	BG					50	BG				

% Desirable Cover = 26 points = 52%

% Undesirable Cover =

% Noxious Cover =

% Bare Ground Cover = 24 points = 48%

% Desirable Cover Site= 38

% Desirable Cover Reference Site= 52

Pass: X Fail: % Difference of Site to Reference: 73%

Plant Code	Common Name
TILA2	woolly tidestromia
GUSA2	broom snakeweed
PRGL2	Honey mesquite
PSTA	woolly paperflower
XASP	cut-leaf ironplant

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 521797

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2406265359**
Incident Name	**NAPP2406265359 ABE 1 TB @ L-28-21S-33E**
Incident Type	**Produced Water Release**
Incident Status	**Re-vegetation Report Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	ABE 1 TB
Date Release Discovered	03/02/2024
Surface Owner	Private

Incident Details *Please answer all the questions in this group.*	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Normal Operations | Pipeline (Any) | Produced Water | Released: 21 BBL | Recovered: 0 BBL | Lost: 21 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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 (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	04/15/2024
On what date will (or did) the final sampling or liner inspection occur	04/08/2024
On what date will (or was) the remediation complete(d)	04/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	5617
What is the estimated volume (in cubic yards) that will be reclaimed	320
What is the estimated surface area (in square feet) that will be remediated	5617
What is the estimated volume (in cubic yards) that will be remediated	320
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 (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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	No
OR is the **off-site** disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

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

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**332925**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/15/2024**
What was the (estimated) number of samples that were to be gathered	**31**
What was the sampling surface area in square feet	**5617**

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	5617
What was the total volume (cubic yards) remediated	320
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	5617
What was the total volume (in cubic yards) reclaimed	320
Summarize any additional remediation activities not included by answers (above)	N/A

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

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I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5617
What was the total volume of replacement material (in cubic yards) for this site	320
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	05/24/2024
Summarize any additional reclamation activities not included by answers (above)	no other requirements need
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	5617
Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.	
On what date did the reseeding commence	05/24/2024
On what date was the vegetative cover inspected	07/24/2025
What was the life form ratio compared to pre-disturbance levels	50
What was the total percent plant cover compared to pre-disturbance levels	70
Summarize any additional revegetation activities not included by answers (above)	N/A
The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.	
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Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 521797

CONDITIONS

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	Action Number: 521797
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Re-vegetation Report for Incident #NAPP2406265359 ABE 1 TB, thank you. This Reclamation Re-vegetation Report is approved.	3/2/2026