



August 23, 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
AO 6 State Com TB
Incident Number nAPP2413542400
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 AO 6 State Com TB (Site). The Site is located in Unit P, Section 06, Township 22 South, Range 33 East, in Lea County, New Mexico (32.4164063°, -103.6039982°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

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 onto the well pad. Based on field observations, field screening activities, and soil sample 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 nAPP2413542400.

BACKGROUND

On May 13, 2024, a water transfer poly line failed, resulting in the release of approximately 165 barrels (bbls) of produced water onto the caliche pad and inside the lined secondary containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 65 bbls of released produced water were recovered from within the lined containment. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on May 14, 2024, and the release was subsequently assigned Incident Number nAPP2413542400. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was deemed insufficient and delineation beneath the lined containment would be required.

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 01881 POD1, located approximately 0.49 miles north of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 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 an intermittent dry wash, located approximately 861 feet east 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

SITE ASSESSMENT ACTIVITIES

On May 14, 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 LINER INTEGRITY INSPECTION

On May 23, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Four delineation soil samples (SS01 through SS04) were collected from around the release extent at ground surface to assess the lateral extent of the release. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent to assess the vertical extent of release. Boreholes BH01 and BH04 were advanced to a depth of 2 feet bgs and boreholes BH02 and BH03 were advanced to a depth of 1-foot bgs. Two discrete delineation soil samples were collected from each borehole and 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.

On May 30, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the containment liner. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on May 23, 2024. The liner was found to be insufficient during the inspection and as such, two boreholes, (BH05 and BH06), were advanced in the general vicinity of the damaged liner via hand auger. Boreholes BH05 and BH06 were advanced to

a terminal depth of 2 feet bgs. Photographs taken during the liner inspection are included in Appendix B. The delineation soil sample locations are depicted on Figure 2.

Lateral delineation soil samples (SS01 through SS04) and discrete delineation soil samples from boreholes (BH01 through BH06) 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.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on July 22, 2024, Ensolum personnel oversaw the excavation of impacted and waste-containing soil from the on-pad release area. BDS Enterprises completed a surface scrape of the release area with a backhoe, hydrovac, and hand tools. The excavation occurred on the well pad on the west side of the lined secondary containment. To direct excavation activities, Ensolum personnel field screened soil samples for chloride utilizing Mohr method titration.

Following the removal of impacted and 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 FS55) were collected from the floor of the excavation at ground surface. Due to the shallow nature of the excavation, confirmation sidewall soil samples were incorporated into the excavation floor samples. 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.

Ensolum personnel returned to the Site on August 9, 2024, to resample three confirmation floor samples (FS14@0', FS15@0' and FS16@0') that exceeded the Site Closure Criteria. A hydrovac was used to remove impacted soil in the confirmation sample areas due to the proximity of the sample areas to active production equipment. The final excavation extent measured approximately 10,865 square feet. A total of approximately 182 cubic yards of impacted and waste-containing soil was removed during the excavation activities. Impacted and 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 SS04), 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, BH04, and BH06 were all in compliance with Site Closure Criteria at ground surface and all COCs were in compliance with the strictest Closure Criteria at 2 feet bgs. Laboratory analytical results from boreholes BH03 and BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from ground surface to 1-foot bgs and all COCs were in compliance with the strictest Closure Criteria at 1-foot bgs. Laboratory analytical results from borehole BH02 indicated the chloride concentration exceeded the Site Closure Criteria at ground surface; however, all COCs were in compliance with the strictest Closure Criteria at 1-foot bgs.

Laboratory analytical results for excavation floor soil samples (FS01 through FS55) indicated all COC concentrations were compliant with the Site Closure Criteria at ground surface bgs except for FS14@0',

FS15@0' and FS16@0', which were resampled. Laboratory analytical results for confirmation floor samples FS14@0.5', FS15@0.5', and FS16@0' indicated COCs were all in compliance with the Site Closure Criteria. 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 SS04), collected at ground surface, and vertically by boreholes (BH01, BH04 a BH06), collected at terminal depth of 2 feet bgs and by boreholes (BH02, BH03 and BH05) collected at a terminal depth of 1-foot bgs. Excavation of the impacted area on pad was completed, and excavation floor samples (FS01 through FS55), collected at ground surface, were all in compliance with the Site Closure Criteria.

Based on the remedial actions completed to date and a depth to groundwater greater than 105 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 nAPP2413542400.

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

Sincerely,
Ensolum, LLC

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

Ashley Giovengo
Senior Scientist

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

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

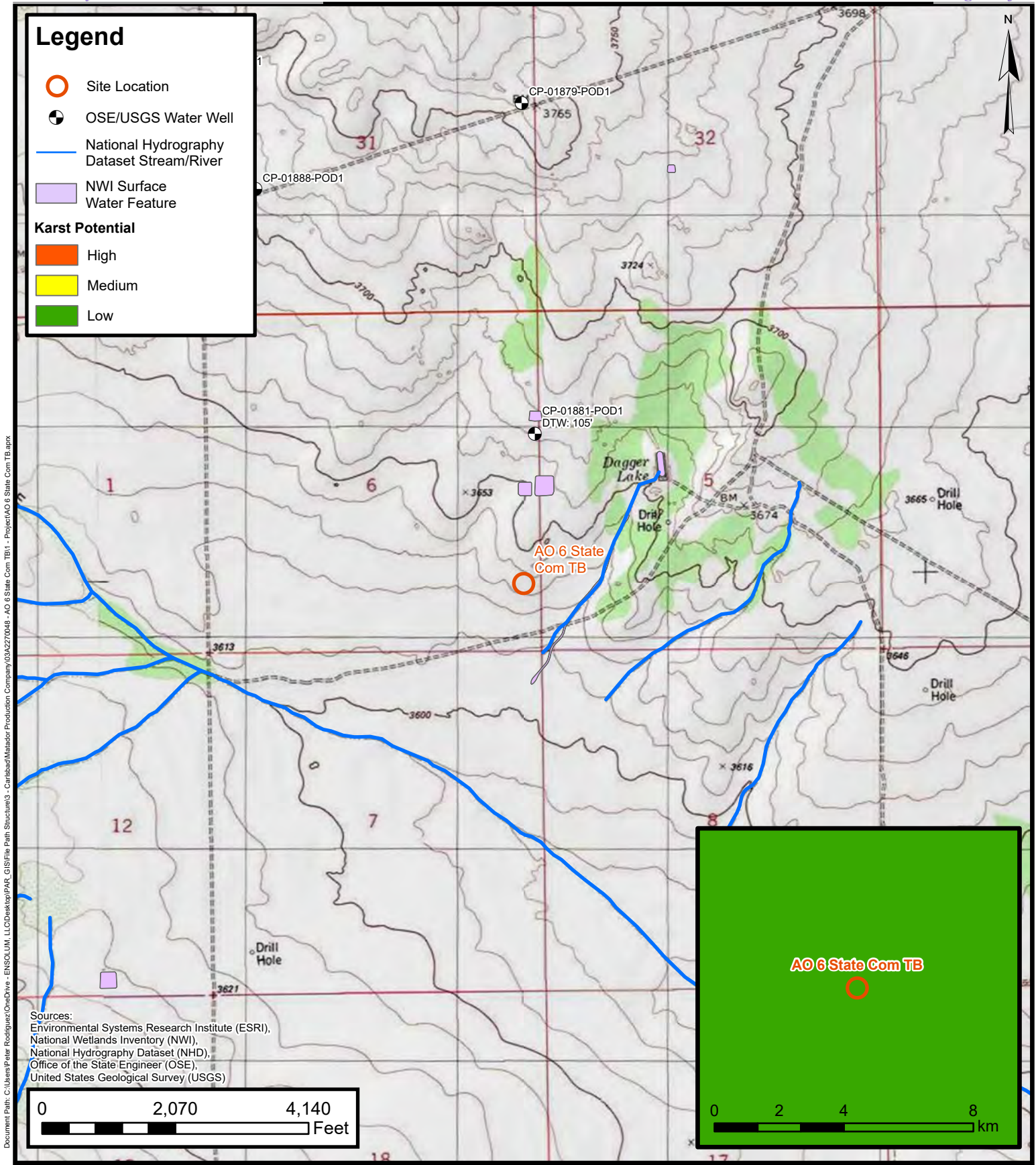
Appendices:

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	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Email Correspondence



FIGURES





Document Path: C:\Users\pater.rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\Map\Map Production Company\03A227048 - AO 6 State Com TB - Project\AO 6 State Com TB.aprx

Site Receptor Map

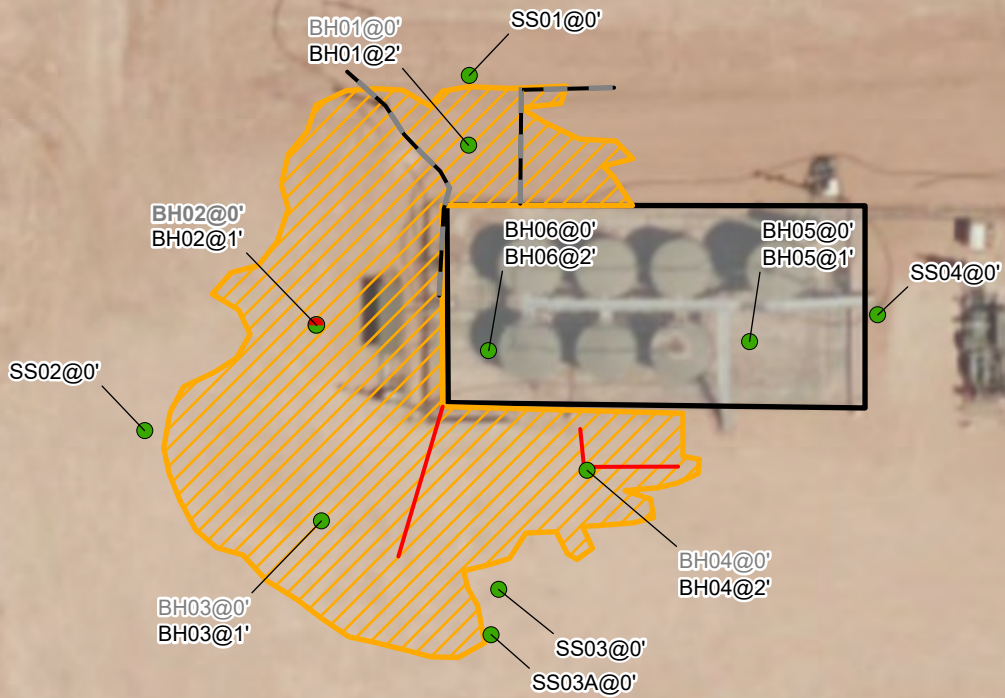
Matador Production Company
AO 6 State Com TB
Incident Number: nAPP2413542400
Unit P, Section 06, Township 22S, Range 33E
Lea County, New Mexico

FIGURE
1

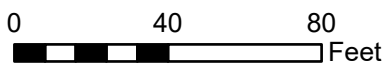


Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample with Concentrations Formerly Exceeding Closure Criteria
- Oil and Gas Utility Pipeline
- Subsurface Electrical Line
- Containment Liner
- Release Extent



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



Source: Bing Maps



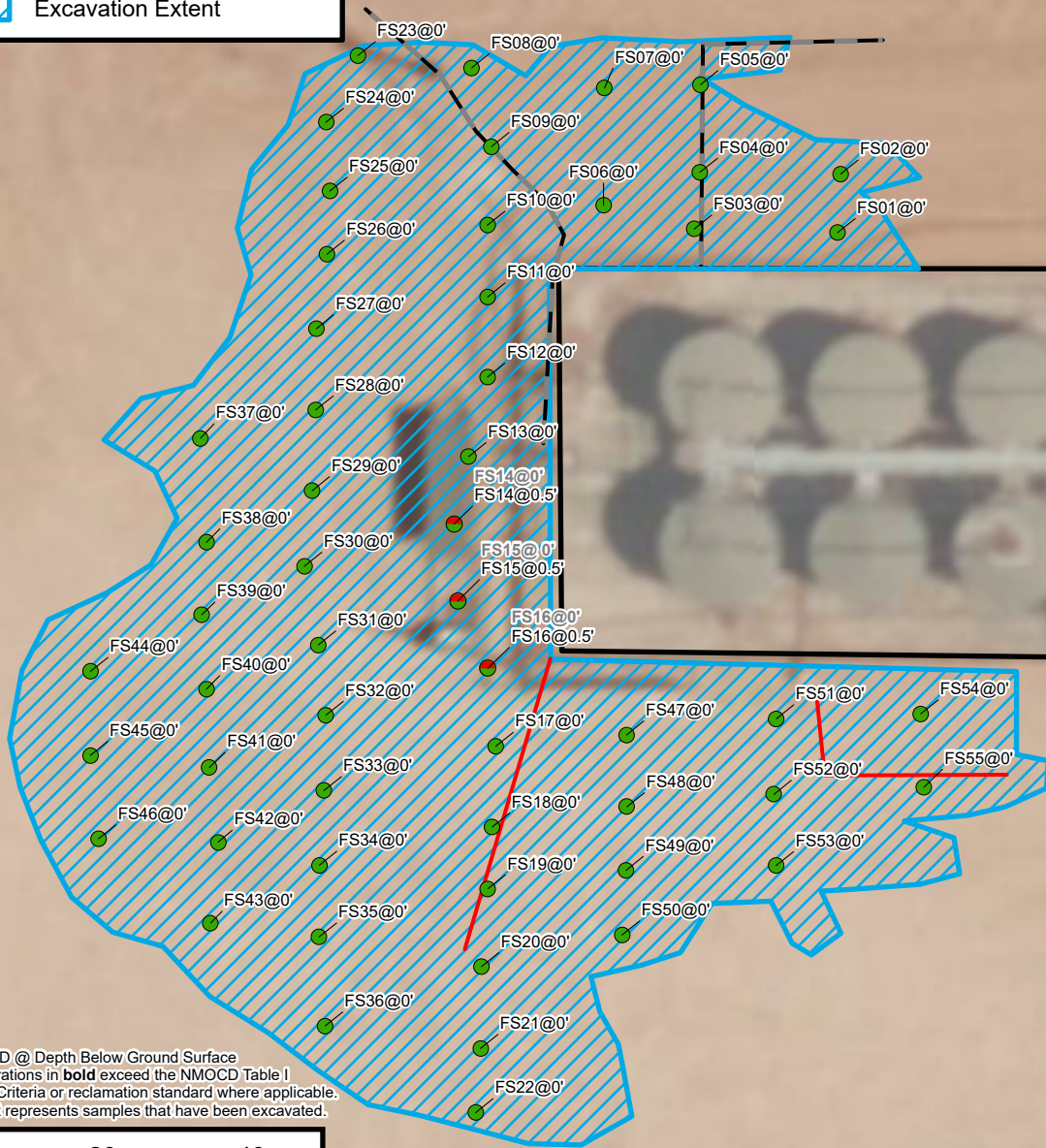
Delineation Soil Sample Locations

Matador Production Company
 AO 6 State Com TB
 Incident Number: nAPP2413542400
 Unit P, Section 06, Township 22S, Range 33E
 Lea County, New Mexico

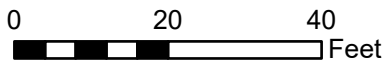
FIGURE
 2

Legend

- Delineation Soil Sample in Compliance with NMOCD Closure Criteria
- Delineation Soil Sample with Concentrations Formerly Exceeding Closure Criteria
- Oil and Gas Utility Pipeline
- Subsurface Electrical Line
- Containment Liner
- Excavation Extent



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



Source: Bing Maps



Confirmation Soil Sample Locations

Matador Production Company
 AO 6 State Com TB
 Incident Number: nAPP2413542400
 Unit P, Section 06, Township 22S, Range 33E
 Lea County, New Mexico

FIGURE
3



TABLES





TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 AO 6 State Com 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	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	49.3
SS02	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	183
SS03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	190
SS04	5/23/2024	0	<0.0250	<0.0500	<20.0	54.5	72.5	54.5	127	262
BH01	5/23/2024	0	<0.0250	<0.0500	<20.0	805	452	805	1,257	15,800
BH01	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	38.6
BH02	5/23/2024	0	<0.0250	<0.0500	<20.0	340	<50.0	340	340	27,600
BH02	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	85.2
BH03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	14,400
BH03	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	3,700
BH04	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	2,460
BH04	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	32.7
BH05	5/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,210
BH05	5/30/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	244
BH06	5/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,190
BH06	5/30/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	72.8

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 AO 6 State Com 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
Confirmation Soil Samples										
FS01	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,010
FS02	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	3,040
FS03	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,820
FS04	7/22/2024	0	<0.0250	<0.0500	<20.0	84.3	74	84.3	<50.0	5,480
FS05	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,300
FS06	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,200
FS07	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	2,350
FS08	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	6,940
FS09	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,300
FS10	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	17,700
FS11	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,600
FS12	7/23/2024	0	<0.0250	<0.0500	<20.0	41.5	<50.0	41.5	41.5	13,100
FS13	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,100
FS14	7/23/2024	0	<0.0250	<0.0500	<20.0	3,920	1,490	3,920	5,410	6,380
FS14	8/9/2024	0.5	<0.0250	<0.0500	<20.0	33.0	<50.0	<20.0	33.0	941
FS15	7/23/2024	0	<0.0250	0.0335	<20.0	4,010	1,480	4,010	5,490	7,800
FS15	8/9/2024	0.5	<0.0250	0.106	<20.0	92.9	<50.0	<20.0	92.9	2,610
FS16	7/23/2024	0	<0.0250	0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	20,900
FS16	8/9/2024	0	<0.0250	0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	4,100
FS17	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,000
FS18	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	14,500
FS19	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,440



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 AO 6 State Com 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
Confirmation Soil Samples										
FS20	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,300
FS21	7/23/2024	0	<0.0250	<0.0500	<20.0	183	154	183	337	13,800
FS22	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,020
FS23	7/23/2024	0	<0.0250	<0.0500	<20.0	69.8	<50.0	69.8	69.8	5,760
FS24	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,860
FS25	7/23/2024	0	<0.0250	<0.0500	<20.0	65.5	<50.0	65.5	65.5	9,100
FS26	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,600
FS27	7/23/2024	0	<0.0250	<0.0500	<20.0	25.8	<50.0	25.8	25.8	11,700
FS28	7/23/2024	0	<0.0250	<0.0500	<20.0	71.0	<50.0	71.0	71.0	11,500
FS29	7/23/2024	0	<0.0250	<0.0500	<20.0	121	55.6	121	177	11,200
FS29	7/23/2024	0	<0.0250	<0.0500	<20.0	121	55.6	121	177	11,200
FS30	7/23/2024	0	<0.0250	<0.0500	<20.0	29	<50.0	29.0	29.0	16,300
FS31	7/22/2024	0	<0.0250	<0.0500	<20.0	36.9	<50.0	36.9	36.9	7,660
FS32	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,240
FS33	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,540
FS34	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,440
FS35	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,730
FS36	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	1,910
FS37	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,300
FS38	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,800
FS39	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,400
FS40	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,380



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 AO 6 State Com 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
Confirmation Soil Samples										
FS41	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,560
FS42	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,670
FS43	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,520
FS44	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,690
FS45	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,930
FS46	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,400
FS47	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,630
FS48	7/23/2024	0	<0.0250	<0.0500	<20.0	28.1	<50.0	28.1	28.1	7,730
FS49	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,730
FS50	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	1,870
FS52	7/23/2024	0	<0.0250	<0.0500	<20.0	29.8	<50.0	29.8	29.8	10,000
FS52	7/23/2024	0	<0.0250	<0.0500	<20.0	29.8	<50.0	29.8	29.8	10,000
FS53	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	10,200
FS54	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,350
FS55	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,830

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1881		
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700		
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX	ZIP 77077
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 25	SECONDS 22	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
LONGITUDE 103 36 12 W							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec. 06 T22S R33E							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 10/12/2021	DRILLING ENDED 10/12/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				


FOR OSE INTERNAL USE

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

FILE NO. CP-1881	POD NO. 1	TRN NO. 699675
LOCATION 22S. 33E. 4. 242	WELL TAG ID NO. /	PAGE 1 OF 2

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

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. <div style="text-align: right;">USE DTI NOV 2 2021 AM 8:14</div>
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

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

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	



APPENDIX B

Photographic Log



Photographic Log
Matador production Company
AO 6 State Com TB
nAPP2413542400



Photograph 1
Date: 5/14/24
Description: Spill Area
View: Northwest

Photograph 2
Date: 5/14/24
Description: Spill Area
View: North



Photograph 3
Date: 5/14/24
Description: Spill Area
View: Southeast

Photograph 4
Date: 5/14/24
Description: Spill Area
View: West



Photographic Log
Matador production Company
AO 6 State Com TB
nAPP2413542400



Photograph 5 Date: 5/23/24
Description: Delineation
View: East



Photograph 6 Date: 5/23/24
Description: Delineation
View: Southeast



Photograph 7 Date: 5/30/24
Description: BH05
View: Northeast



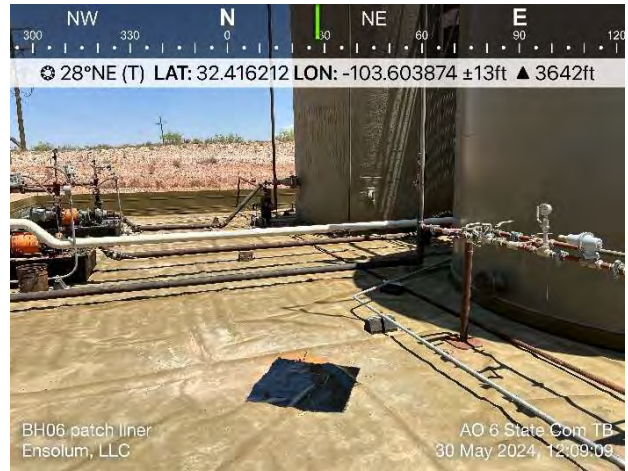
Photograph 8 Date: 5/30/24
Description: BH06
View: Northeast



Photographic Log
 Matador production Company
 AO 6 State Com TB
 nAPP2413542400



Photograph 9 Date: 5/30/24
 Description: Liner Patch
 View:



Photograph 10 Date: 5/30/24
 Description: Liner Patch
 View:



Photograph 11 Date: 7/22/24
 Description: Hydrovac Lines
 View: Northwest



Photograph 12 Date: 7/22/24
 Description: Surface Scrape
 View: East



Photographic Log
Matador production Company
AO 6 State Com TB
nAPP2413542400



Photograph 13 Date: 7/22/24
Description: Hand Digging
View: South

Photograph 14 Date: 7/23/24
Description: Surface Scrape
View: East



Photograph 15 Date: 7/23/24
Description: Surface Scrape
View: Northeast

Photograph 16 Date: 7/23/24
Description: Confirmation Sampling
View: South

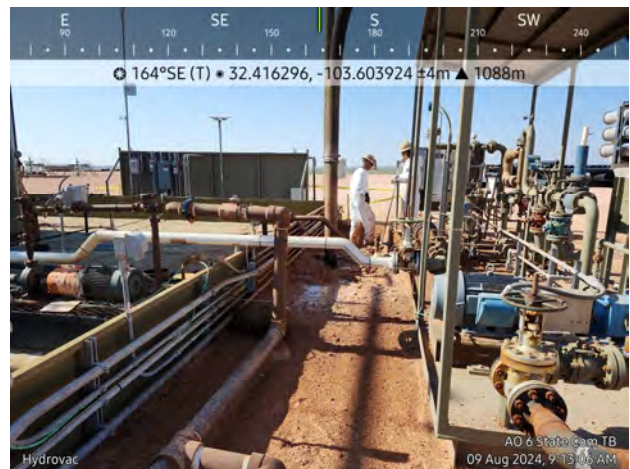


Photographic Log
 Matador production Company
 AO 6 State Com TB
 nAPP2413542400



Photograph 17 Date: 08/09/24
 Description: Resample
 View: North

Photograph 18 Date: 08/09/24
 Description: Resample
 View: Northeast




Photograph 19 Date: 08/09/24
 Description: Resample
 View: North


Photograph 20 Date: 08/09/24
 Description: Resample
 View: South





APPENDIX C


Lithologic Soil Sampling Logs


					Sample Name: BH01		Date: 5/23/2024	
					Site Name: AO 6 State Com TB			
					Incident Number: nAPP2413542400			
					Job Number: 03A2270048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Kaoru Shimada		Method: Hand Auger	
Coordinates: 32.416352, -103.603886					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH01	0	0	CCHE	Caliche Pad - Very light brown to white, maostly fien to very fine grain size with some small to large gravel
D	1,546		N	BH01	1	1	SC	Clayey Sand w/ some Gravel - Light brown, very fine to fine grain w/ some small to large gravel, Low-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
D	ND		N	BH01	2	2	SC	Clayey Sand w/ trace Gravel - Light brown, very fine to fine grain w/ trace small to large gravel, Low-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
Total Depth at 2 feet bgs.								

					Sample Name: BH02		Date: 5/23/2024	
					Site Name: AO 6 State Com TB			
					Incident Number: nAPP2413542400			
					Job Number: 03A2270048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Kaoru Shimada		Method: Hand Auger	
Coordinates: 32.416224, -103.604016					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH02	0	0	CCHE	Caliche Pad - Very light brown to white, maostly fien to very fine grain size with some small to large gravel
D	ND		N	BH02	1	1	SC	Clayey Sand w/ some Gravel - Brown, very fine to fine grain w/ some small to large gravel, Low-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
Total Depth at 1 foot bgs.								

		Sample Name: BH03		Date: 5/23/2024				
		Site Name: AO 6 State Com TB						
		Incident Number: nAPP2413542400						
		Job Number: 03A2270048						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.416084, -103.604014			Logged By: Kaoru Shimada		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D				BH03	0	0	CCHE	Caliche Pad - Very light brown to white, maostly fien to very fine grain size with some small to large gravel
D	>3,617			BH03	1	1	SC	Clayey Sand w/ some Gravel - Light Brown, very fine to fine grain w/ some small to large gravel, Low-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
Total Depth at 1 foot bgs.								

					Sample Name: BH04		Date: 5/23/2024	
					Site Name: AO 6 State Com TB			
					Incident Number: nAPP2413542400			
					Job Number: 03A2270048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Kaoru Shimada		Method: Hand Auger	
Coordinates: 32.416118, -103.603789					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH04	0	0	CCHE	Caliche Pad - Very light brown to white, maostly fien to very fine grain size with some small to large gravel
D	2,520		N	BH04	1	1	SC	Clayey Sand w/ some Gravel - Brown, very fine to fine grain w/ some small to large gravel, Low-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
D	ND		N	BH04	2	2	SC	Clayey Sand w/ trace Gravel - Dark brown, very fine to fine grain w/ trace small to large gravel, Medium-Plasticity, Noncohesive, Dry, Massive, Non-Uniform
Total Depth at 2 feet bgs.								

					Sample Name: BH05		Date: 5/30/24	
					Site Name: AO 6 State Com TB			
					Incident Number: nAPP2413542400			
					Job Number: 03A2270048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.41521, -103.60365					Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Description
M			N	BH01	0	0	SP-SM	Moist, Red Sand, No Staining
M	274		N	BH01	1	1	SP-SM	Moist, Red Sand, No Staining
M	ND		N	BH01	2	2	SP-SM	Moist, Red Sand, No Staining
Total Depth @ 2'								
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								

		Sample Name: BH06		Date: 5/30/24				
		Site Name: AO 6 State Com TB						
		Incident Number: nAPP2413542400						
		Job Number: 03A2270048						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.41620, -103.60387			Logged By: Israel Estrella		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Description
M			N	BH02	0	0	SP-SM	Moist, Red Sand, No Staining
M	2,055		N	BH02	1	1	SP-SM	Moist, Red Sand, No Staining
M	ND		N	BH02	2	2	SP-SM	Moist, Red Sand, No Staining
Total Depth @ 2'								
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State TB

Work Order: E405366

Job Number: 23003-0002

Received: 5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 6/7/24

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

Project Name: AO 6 State TB
Workorder: E405366
Date Received: 5/28/2024 10:00:41AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 - 0'	5
SS02 - 0'	6
SS03 - 0'	7
SS04 - 0'	8
BH01 - 0'	9
BH01 - 2'	10
BH02 - 0'	11
BH02 - 1'	12
BH03 - 0'	13
BH03 - 1'	14
BH04 - 0'	15
BH04 - 2'	16
QC Summary Data	17
QC - Volatile Organic Compounds by EPA 8260B	17
QC - Nonhalogenated Organics by EPA 8015D - GRO	18
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	19
QC - Anions by EPA 300.0/9056A	20
Definitions and Notes	21
Chain of Custody etc.	22

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/07/24 09:49
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E405366-01A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS02 - 0'	E405366-02A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS03 - 0'	E405366-03A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
SS04 - 0'	E405366-04A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH01 - 0'	E405366-05A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH01 - 2'	E405366-06A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH02 - 0'	E405366-07A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH02 - 1'	E405366-08A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH03 - 0'	E405366-09A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH03 - 1'	E405366-10A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH04 - 0'	E405366-11A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH04 - 2'	E405366-12A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
---	---	--

SS01 - 0'
E405366-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	-----------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2422093	
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	

<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130	1	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.9 %	70-130	1	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>	101 %	70-130	1	05/30/24	06/05/24	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2422093	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130	1	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.9 %	70-130	1	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>	101 %	70-130	1	05/30/24	06/05/24	

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/05/24	
<i>Surrogate: n-Nonane</i>	106 %	50-200	1	06/04/24	06/05/24	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423010	
Chloride	49.3	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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SS02 - 0'

E405366-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/05/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/04/24	06/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	183	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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SS03 - 0'

E405366-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		98.8 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		98.8 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	190	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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SS04 - 0'

E405366-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	54.5	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	72.5	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	262	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH01 - 0'

E405366-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	805	125	5	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	452	250	5	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	15800	400	20	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH01 - 2'

E405366-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		98.3 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		98.3 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	38.6	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH02 - 0'

E405366-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	340	250	10	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	500	10	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	27600	1000	50	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH02 - 1'

E405366-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	85.2	20.0	1	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH03 - 0'
E405366-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	14400	200	10	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH03 - 1'

E405366-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	3700	40.0	2	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH04 - 0'

E405366-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.6 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.6 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	2460	40.0	2	06/03/24	06/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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BH04 - 2'

E405366-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Benzene	ND	0.0250	1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24	
Toluene	ND	0.0250	1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	05/30/24	06/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	05/30/24	06/05/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423010
Chloride	32.7	20.0	1	06/03/24	06/03/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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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
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Blank (2422093-BLK1)

Prepared: 05/30/24 Analyzed: 06/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

LCS (2422093-BS1)

Prepared: 05/30/24 Analyzed: 06/05/24

Benzene	2.51	0.0250	2.50		101	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.50	0.0250	2.50		99.9	70-130			
o-Xylene	2.71	0.0250	2.50		109	70-130			
p,m-Xylene	5.41	0.0500	5.00		108	70-130			
Total Xylenes	8.13	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS Dup (2422093-BSD1)

Prepared: 05/30/24 Analyzed: 06/05/24

Benzene	2.57	0.0250	2.50		103	70-130	2.24	23	
Ethylbenzene	2.72	0.0250	2.50		109	70-130	2.87	27	
Toluene	2.56	0.0250	2.50		102	70-130	2.39	24	
o-Xylene	2.84	0.0250	2.50		114	70-130	4.48	27	
p,m-Xylene	5.68	0.0500	5.00		114	70-130	4.80	27	
Total Xylenes	8.52	0.0250	7.50		114	70-130	4.69	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422093-BLK1)

Prepared: 05/30/24 Analyzed: 06/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

LCS (2422093-BS2)

Prepared: 05/30/24 Analyzed: 06/05/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS Dup (2422093-BSD2)

Prepared: 05/30/24 Analyzed: 06/05/24

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.3	70-130	5.33	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423032-BLK1)

Prepared: 06/04/24 Analyzed: 06/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			

LCS (2423032-BS1)

Prepared: 06/04/24 Analyzed: 06/05/24

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: <i>n</i> -Nonane	53.7		50.0		107	50-200			

LCS Dup (2423032-BSD1)

Prepared: 06/04/24 Analyzed: 06/05/24

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132	1.45	20	
Surrogate: <i>n</i> -Nonane	53.5		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 9:49:02AM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423010-BLK1)

Prepared: 06/03/24 Analyzed: 06/03/24

Chloride	ND	20.0							
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LCS (2423010-BS1)

Prepared: 06/03/24 Analyzed: 06/03/24

Chloride	248	20.0	250		99.4	90-110			
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LCS Dup (2423010-BSD1)

Prepared: 06/03/24 Analyzed: 06/03/24

Chloride	248	20.0	250		99.0	90-110	0.356	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/07/24 09:49
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Received by OCD: 8/26/2024 2:52:38 PM

Released to Imaging: 8/28/2024 3:59:54 PM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#				1D 2D 3D Std				NM CO UT TX			
Project: <u>AO G State TB</u>				Address: 3122 National Parks Hwy				<u>E4653100</u>				<u>23003-0002</u>							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
Compliance															Y	or	N				
0:00 1059	5/23/2024	Soil	1	SS01 - 0'		1															
907	5/23/2024	Soil	1	SS02 - 0'		2															
1007	5/23/2024	Soil	1	SS03 - 0'		3															
912	5/23/2024	Soil	1	SS04 - 0'		4															
1115	5/23/2024	Soil	1	BH01 - 0'		5															
1120	5/23/2024	Soil	1	BH01 - 2'		6															
1101	5/23/2024	Soil	1	BH02 - 0'		7															
1107	5/23/2024	Soil	1	BH02 - 1'		8															
1150	5/23/2024	Soil	1	BH03 - 0'		9															
1154	5/23/2024	Soil	1	BH03 - 1'		10															

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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Karen Shimada

Relinquished by: (Signature) <u>[Signature]</u>	Date 5/24/24	Time 1005	Received by: (Signature) <u>Michelle Gonzales</u>	Date 5/24/24	Time 1005	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>3</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 5/24/24	Time 1620	Received by: (Signature) <u>[Signature]</u>	Date 5/24/24	Time 1800	
Relinquished by: (Signature) <u>[Signature]</u>	Date 5/24/24	Time 2400	Received by: (Signature) <u>[Signature]</u>	Date 5/28/24	Time 1000	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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



Page 52 of 71

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Matador Production Company	Company: Ensolum LLC	Lab WO#	1D 2D 3D Std	NM CO UT TX
Project: <u>AD 6 State TB</u>	Address: 3122 National Parks Hwy	<u>E405300</u>	<u>23053-0002</u>	
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: <u>agiovengo@ensolum.com</u>			
Phone: 575-988-0055	Miscellaneous:			
Email: <u>agiovengo@ensolum.com</u>				

Sample Information					Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
0:00 1215	5/23/2024	Soil	1	BH04 -0'		11						/						
1229	5/23/2024	Soil	1	BH04 -2'		12						/						

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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Kaoru Shimiada

Relinquished by: (Signature) <u>[Signature]</u>	Date 5/24/24	Time 1005	Received by: (Signature) <u>Michelle Gonzales</u>	Date 5-24-24	Time 1005	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 5-24-24	Time 1620	Received by: (Signature) <u>[Signature]</u>	Date 5-24-24	Time 1800	
Relinquished by: (Signature) <u>[Signature]</u>	Date 5-24-24	Time 2400	Received by: (Signature) <u>[Signature]</u>	Date 5/28/24	Time 1000	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

Envirotech Analytical Laboratory

Printed: 5/28/2024 2:11:53PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 05/28/24 10:00	Work Order ID: E405366
Phone: (972) 371-5200	Date Logged In: 05/25/24 19:03	Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com	Due Date: 06/04/24 17:00 (5 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State TB

Work Order: E406006

Job Number: 23003-0002

Received: 6/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/7/24



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

Project Name: AO 6 State TB
Workorder: E406006
Date Received: 6/3/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/3/2024 8:00:00AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
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

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 -0'	5
BH01 -1'	6
BH02 -0'	7
BH02 -2'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/07/24 14:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E406006-01A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH01 -1'	E406006-02A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH02 -0'	E406006-03A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH02 -2'	E406006-04A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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BH01 -0'
E406006-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
o-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2423049
Chloride	5210	40.0	2	06/04/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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BH01 -1'

E406006-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
o-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2423049
Chloride	244	20.0	1	06/04/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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BH02 -0'

E406006-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
o-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	69.0	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2423049
Chloride	7190	100	5	06/04/24	06/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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BH02 -2'

E406006-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
o-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.2 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2423049
Chloride	72.8	20.0	1	06/04/24	06/04/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423011-BLK1)

Prepared: 06/03/24 Analyzed: 06/03/24

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	7.45		8.00		93.1	70-130			

LCS (2423011-BS1)

Prepared: 06/03/24 Analyzed: 06/03/24

Benzene	4.55	0.0250	5.00		91.1	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.2	70-130			
Toluene	4.49	0.0250	5.00		89.8	70-130			
o-Xylene	4.39	0.0250	5.00		87.9	70-130			
p,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

LCS Dup (2423011-BSD1)

Prepared: 06/03/24 Analyzed: 06/03/24

Benzene	4.71	0.0250	5.00		94.2	70-130	3.36	20	
Ethylbenzene	4.56	0.0250	5.00		91.1	70-130	3.21	20	
Toluene	4.64	0.0250	5.00		92.8	70-130	3.29	20	
o-Xylene	4.53	0.0250	5.00		90.6	70-130	3.05	20	
p,m-Xylene	9.27	0.0500	10.0		92.7	70-130	2.93	20	
Total Xylenes	13.8	0.0250	15.0		92.0	70-130	2.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423011-BLK1)

Prepared: 06/03/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2423011-BS2)

Prepared: 06/03/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			

LCS Dup (2423011-BSD2)

Prepared: 06/03/24 Analyzed: 06/03/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.1	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423048-BLK1)

Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.7		50.0		109	50-200			

LCS (2423048-BS1)

Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	308	25.0	250		123	38-132			
Surrogate: <i>n</i> -Nonane	56.4		50.0		113	50-200			

LCS Dup (2423048-BSD1)

Prepared: 06/04/24 Analyzed: 06/06/24

Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.194	20	
Surrogate: <i>n</i> -Nonane	55.9		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:30:38PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423049-BLK1)

Prepared: 06/04/24 Analyzed: 06/04/24

Chloride	ND	20.0							
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LCS (2423049-BS1)

Prepared: 06/04/24 Analyzed: 06/04/24

Chloride	255	20.0	250		102	90-110			
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LCS Dup (2423049-BSD1)

Prepared: 06/04/24 Analyzed: 06/04/24

Chloride	256	20.0	250		103	90-110	0.408	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/07/24 14:30
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging: 8/26/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client: Matador Production Company		Bill To		Lab Use Only			TAT			EPA Program							
Project: AO 6 State Com TB		Attention: Ensolum LLC		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo		Address: on file		E 406006	23003-0002					x							
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA					
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055		Email: agiovengo@ensolum.com										NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com		Report due by:										x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
10:47	5/30/2024	Soil	1	BH01 -0'	1							X		
10:54	5/30/2024	Soil	1	BH01 -1'	2							X		
11:03	5/30/2024	Soil	1	BH02 - 0'	3							X		
11:08	5/30/2024	Soil	1	BH02 - 2'	4							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
		5/31/24	8:21			5.31.24	1000	Received on Ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____	
		6.1.24	1620			6/3/24	0800	AVG Temp °C <u>4</u>	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time		

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

Note: Samples are discarded 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.



Page 1 of 1

Envirotech Analytical Laboratory

Printed: 6/3/2024 11:05:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 06/03/24 08:00	Work Order ID: E406006
Phone: (972) 371-5200	Date Logged In: 06/03/24 10:43	Logged In By: Angelina Pineda
Email: agiovnngo@ensolum.com	Due Date: 06/10/24 17:00 (5 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State TB

Work Order: E407179

Job Number: 23052-0001

Received: 7/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/29/24

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



Project Name: AO 6 State TB
Workorder: E407179
Date Received: 7/24/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2024 5:00:00AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 - 0'	5
FS02 - 0'	6
FS03 - 0'	7
FS04 - 0'	8
FS05 - 0'	9
FS06 - 0'	10
FS07 - 0'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 07/29/24 15:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0'	E407179-01A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS02 - 0'	E407179-02A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS03 - 0'	E407179-03A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS04 - 0'	E407179-04A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS05 - 0'	E407179-05A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS06 - 0'	E407179-06A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS07 - 0'	E407179-07A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS01 - 0'
E407179-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/24/24	
Toluene	ND	0.0250	1	07/24/24	07/24/24	
o-Xylene	ND	0.0250	1	07/24/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/24/24	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	07/24/24	07/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	07/24/24	07/24/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/24/24	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	07/24/24	07/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	07/24/24	07/24/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		91.2 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: JM		Batch: 2430068
Chloride	5010	40.0	2	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS02 - 0'

E407179-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/24/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/24/24	
Toluene	ND	0.0250	1	07/24/24	07/24/24	
o-Xylene	ND	0.0250	1	07/24/24	07/24/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/24/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/24/24	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	07/24/24	07/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	07/24/24	07/24/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/24/24	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	07/24/24	07/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.3 %	70-130	07/24/24	07/24/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		91.2 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	3040	40.0	2	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS03 - 0'

E407179-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	07/24/24	07/25/24	
o-Xylene	ND	0.0250	1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		93.9 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	5820	100	5	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS04 - 0'

E407179-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	07/24/24	07/25/24	
o-Xylene	ND	0.0250	1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.8 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.8 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	84.3	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	74.0	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	5480	100	5	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS05 - 0'

E407179-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	07/24/24	07/25/24	
o-Xylene	ND	0.0250	1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		87.7 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	5300	100	5	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS06 - 0'

E407179-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	07/24/24	07/25/24	
o-Xylene	ND	0.0250	1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.7 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.7 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		95.9 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	7200	100	5	07/24/24	07/24/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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FS07 - 0'
E407179-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Benzene	ND	0.0250	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	07/24/24	07/25/24	
o-Xylene	ND	0.0250	1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.0 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	07/24/24	07/25/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.0 %	70-130	07/24/24	07/25/24	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0	1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/24/24	07/25/24	
<i>Surrogate: n-Nonane</i>		88.3 %	50-200	07/24/24	07/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2430068
Chloride	2350	40.0	2	07/24/24	07/24/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430059-BLK1)

Prepared: 07/24/24 Analyzed: 07/24/24

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	0.584		0.500		117		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8		70-130		
Surrogate: Toluene-d8	0.533		0.500		107		70-130		

LCS (2430059-BS1)

Prepared: 07/24/24 Analyzed: 07/24/24

Benzene	2.20	0.0250	2.50		88.0		70-130		
Ethylbenzene	2.51	0.0250	2.50		100		70-130		
Toluene	2.49	0.0250	2.50		99.7		70-130		
o-Xylene	2.71	0.0250	2.50		108		70-130		
p,m-Xylene	5.45	0.0500	5.00		109		70-130		
Total Xylenes	8.16	0.0250	7.50		109		70-130		
Surrogate: Bromofluorobenzene	0.586		0.500		117		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8		70-130		
Surrogate: Toluene-d8	0.543		0.500		109		70-130		

Matrix Spike (2430059-MS1)

Source: E407178-10

Prepared: 07/24/24 Analyzed: 07/24/24

Benzene	2.20	0.0250	2.50	ND	88.0		48-131		
Ethylbenzene	2.50	0.0250	2.50	ND	100		45-135		
Toluene	2.49	0.0250	2.50	ND	99.5		48-130		
o-Xylene	2.67	0.0250	2.50	ND	107		43-135		
p,m-Xylene	5.29	0.0500	5.00	ND	106		43-135		
Total Xylenes	7.96	0.0250	7.50	ND	106		43-135		
Surrogate: Bromofluorobenzene	0.571		0.500		114		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6		70-130		
Surrogate: Toluene-d8	0.538		0.500		108		70-130		

Matrix Spike Dup (2430059-MSD1)

Source: E407178-10

Prepared: 07/24/24 Analyzed: 07/24/24

Benzene	2.17	0.0250	2.50	ND	86.7		48-131	1.47	23
Ethylbenzene	2.46	0.0250	2.50	ND	98.6		45-135	1.49	27
Toluene	2.45	0.0250	2.50	ND	98.1		48-130	1.44	24
o-Xylene	2.67	0.0250	2.50	ND	107		43-135	0.281	27
p,m-Xylene	5.31	0.0500	5.00	ND	106		43-135	0.377	27
Total Xylenes	7.98	0.0250	7.50	ND	106		43-135	0.157	27
Surrogate: Bromofluorobenzene	0.582		0.500		116		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8		70-130		
Surrogate: Toluene-d8	0.538		0.500		108		70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430059-BLK1)

Prepared: 07/24/24 Analyzed: 07/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS (2430059-BS2)

Prepared: 07/24/24 Analyzed: 07/24/24

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2430059-MS2)

Source: E407178-10

Prepared: 07/24/24 Analyzed: 07/24/24

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.443		0.500		88.5	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike Dup (2430059-MSD2)

Source: E407178-10

Prepared: 07/24/24 Analyzed: 07/24/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	0.930	20	
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.5	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430057-BLK1)

Prepared: 07/24/24 Analyzed: 07/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.8		50.0		126	50-200			

LCS (2430057-BS1)

Prepared: 07/24/24 Analyzed: 07/25/24

Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2430057-MS1)

Source: E407179-05

Prepared: 07/24/24 Analyzed: 07/25/24

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

Matrix Spike Dup (2430057-MSD1)

Source: E407179-05

Prepared: 07/24/24 Analyzed: 07/25/24

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.35	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/29/2024 3:48:07PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430068-BLK1)

Prepared: 07/24/24 Analyzed: 07/24/24

Chloride ND 20.0

LCS (2430068-BS1)

Prepared: 07/24/24 Analyzed: 07/24/24

Chloride 249 20.0 250 99.6 90-110

Matrix Spike (2430068-MS1)

Source: E407178-08

Prepared: 07/24/24 Analyzed: 07/24/24

Chloride 249 20.0 250 ND 99.7 80-120

Matrix Spike Dup (2430068-MSD1)

Source: E407178-08

Prepared: 07/24/24 Analyzed: 07/24/24

Chloride 248 20.0 250 ND 99.3 80-120 0.397 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 07/29/24 15:48
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 8/28/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client Information				Invoice Information			Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: AO 6 State TB				Address: 3122 National Parks Hwy			E407179		23003-0002					x	x			
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agioveno@ensolum.com																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
11:47	7/22/2024	S	1	FS01 - 0'		1						X						
11:49	7/22/2024	S	1	FS02 - 0'		2						X						
11:55	7/22/2024	S	1	FS03 - 0'		3						X						
11:57	7/22/2024	S	1	FS04 - 0'		4						X						
11:51	7/22/2024	S	1	FS05 - 0'		5						X						
11:54	7/22/2024	S	1	FS06 - 0'		6						X						
11:58	7/22/2024	S	1	FS07 - 0'		7						X						
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Envirotech Analytical Laboratory

Printed: 7/24/2024 9:38:34AM

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: 07/24/24 05:00	Work Order ID: E407179
Phone: (972) 371-5200	Date Logged In: 07/23/24 14:55	Logged In By: Noe Soto
Email: agiovnngo@ensolum.com	Due Date: 07/30/24 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State Com TB

Work Order: E407200

Job Number: 23003-0002

Received: 7/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/31/24

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



Project Name: AO 6 State Com TB
Workorder: E407200
Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS08-0'	6
FS09-0'	7
FS10-0'	8
FS11-0'	9
FS12-0'	10
FS13-0'	11
FS14-0'	12
FS15-0'	13
FS16-0'	14
FS17-0'	15
FS18-0'	16
FS19-0'	17
FS20-0'	18
FS21-0'	19
FS22-0'	20
FS23-0'	21
FS24-0'	22
FS25-0'	23
FS26-0'	24
FS27-0'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 12:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-0'	E407200-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS09-0'	E407200-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS10-0'	E407200-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS11-0'	E407200-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS12-0'	E407200-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS13-0'	E407200-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS14-0'	E407200-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS15-0'	E407200-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS16-0'	E407200-09A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS17-0'	E407200-10A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS18-0'	E407200-11A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS19-0'	E407200-12A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS20-0'	E407200-13A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS21-0'	E407200-14A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS22-0'	E407200-15A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS23-0'	E407200-16A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS24-0'	E407200-17A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS25-0'	E407200-18A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS26-0'	E407200-19A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS27-0'	E407200-20A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS08-0'

E407200-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		95.9 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2430116
Chloride	6940	100	5	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS09-0'

E407200-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		91.9 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	11300	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS10-0'

E407200-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		96.2 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	17700	400	20	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS11-0'

E407200-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		97.0 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2430116
Chloride	13600	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS12-0'

E407200-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	41.5	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		90.2 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	13100	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS13-0'

E407200-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		94.6 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	13100	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS14-0'

E407200-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.2 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.2 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	3920	50.0	2	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	1490	100	2	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		95.0 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	6380	100	5	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS15-0'

E407200-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	0.0335	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	0.0335	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	4010	125	5	07/25/24	07/31/24	
Oil Range Organics (C28-C36)	1480	250	5	07/25/24	07/31/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	07/25/24	07/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	7800	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS16-0'

E407200-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	0.0400	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	0.0400	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	20900	400	20	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS17-0'

E407200-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	11000	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS18-0'

E407200-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	14500	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS19-0'

E407200-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	8440	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS20-0'

E407200-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	13300	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS21-0'

E407200-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	183	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	154	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	13800	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS22-0'

E407200-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	8020	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS23-0'

E407200-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	69.8	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		98.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	5760	100	5	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS24-0'

E407200-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2430116
Chloride	8860	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS25-0'

E407200-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	65.5	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	9100	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS26-0'

E407200-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		90.7 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	7600	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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FS27-0'

E407200-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	07/24/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	07/24/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	25.8	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	11700	200	10	07/25/24	07/26/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430093-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

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	0.488		0.500		97.5		70-130		
Surrogate: Toluene-d8	0.498		0.500		99.6		70-130		

LCS (2430093-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

Benzene	2.52	0.0250	2.50		101		70-130		
Ethylbenzene	2.60	0.0250	2.50		104		70-130		
Toluene	2.43	0.0250	2.50		97.1		70-130		
o-Xylene	2.65	0.0250	2.50		106		70-130		
p,m-Xylene	5.19	0.0500	5.00		104		70-130		
Total Xylenes	7.83	0.0250	7.50		104		70-130		
Surrogate: Bromofluorobenzene	0.535		0.500		107		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 (2430093-MS1)

Source: E407200-06

Prepared: 07/24/24 Analyzed: 07/26/24

Benzene	2.63	0.0250	2.50	ND	105		48-131		
Ethylbenzene	2.71	0.0250	2.50	ND	108		45-135		
Toluene	2.52	0.0250	2.50	ND	101		48-130		
o-Xylene	2.70	0.0250	2.50	ND	108		43-135		
p,m-Xylene	5.24	0.0500	5.00	ND	105		43-135		
Total Xylenes	7.95	0.0250	7.50	ND	106		43-135		
Surrogate: Bromofluorobenzene	0.527		0.500		105		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9		70-130		
Surrogate: Toluene-d8	0.500		0.500		99.9		70-130		

Matrix Spike Dup (2430093-MSD1)

Source: E407200-06

Prepared: 07/24/24 Analyzed: 07/26/24

Benzene	2.58	0.0250	2.50	ND	103		48-131	2.05	23
Ethylbenzene	2.68	0.0250	2.50	ND	107		45-135	0.946	27
Toluene	2.49	0.0250	2.50	ND	99.6		48-130	1.24	24
o-Xylene	2.74	0.0250	2.50	ND	110		43-135	1.51	27
p,m-Xylene	5.36	0.0500	5.00	ND	107		43-135	2.17	27
Total Xylenes	8.10	0.0250	7.50	ND	108		43-135	1.94	27
Surrogate: Bromofluorobenzene	0.540		0.500		108		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101		70-130		
Surrogate: Toluene-d8	0.502		0.500		100		70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430093-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS (2430093-BS2)

Prepared: 07/24/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike (2430093-MS2)

Source: E407200-06

Prepared: 07/24/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2430093-MSD2)

Source: E407200-06

Prepared: 07/24/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.225	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430099-BLK1)

Prepared: 07/25/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.8		50.0		104	50-200			

LCS (2430099-BS1)

Prepared: 07/25/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	228	25.0	250		91.3	38-132			
Surrogate: <i>n</i> -Nonane	53.8		50.0		108	50-200			

Matrix Spike (2430099-MS1)

Source: E407200-08

Prepared: 07/25/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	3010	125	250	4010	NR	38-132			M4
Surrogate: <i>n</i> -Nonane	54.1		50.0		108	50-200			

Matrix Spike Dup (2430099-MSD1)

Source: E407200-08

Prepared: 07/25/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	2880	125	250	4010	NR	38-132	4.35	20	M4
Surrogate: <i>n</i> -Nonane	56.9		50.0		114	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 12:22:46PM
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Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2430116-BLK1)

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	ND	20.0							
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LCS (2430116-BS1)

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	258	20.0	250		103	90-110			
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Matrix Spike (2430116-MS1)

Source: E407200-02

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	11200	200	250	11300	NR	80-120			M4
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Matrix Spike Dup (2430116-MSD1)

Source: E407200-02

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	10200	200	250	11300	NR	80-120	9.86	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 12:22
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 8/28/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: AO 6 State Com TB				Address: 3122 National Parks Hwy				E407200		23003-0002					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information										Analysis and Method								EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
9:11	7/23/2024	S	1	FS08 - 0'		1						X									
9:12	7/23/2024	S	1	FS09 - 0'		2						X									
9:14	7/23/2024	S	1	FS10 - 0'		3						X									
9:29	7/23/2024	S	1	FS11 - 0'		4						X									
9:31	7/23/2024	S	1	FS12 - 0'		5						X									
9:34	7/23/2024	S	1	FS13 - 0'		6						X									
9:40	7/23/2024	S	1	FS14 - 0'		7						X									
9:42	7/23/2024	S	1	FS15 - 0'		8						X									
9:48	7/23/2024	S	1	FS16 - 0'		9						X									
9:56	7/23/2024	S	1	FS17 - 0'		10						X									

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

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

Sampled by: Cole Burton						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) <i>Cole Burton</i>	Date 7/24/24	Time 7:30	Received by: (Signature) <i>Michelle Gonzales</i>	Date 7-24-24	Time 1000	Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 7-24-24	Time 1635	Received by: (Signature) <i>A.J.</i>	Date 7-24-24	Time 1700						
Relinquished by: (Signature) <i>A.J.</i>	Date 7-24-24	Time 2400	Received by: (Signature) <i>Sgt</i>	Date 7-25-24	Time 0830						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

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

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



Page 118 of 111

Released to Imaging: 8/28/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>AD 6 State Com TB</u>				Address: 3122 National Parks Hwy				<u>E407200</u>		<u>23003-0002</u>					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			

Sample Information					Analysis and Method										EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
10:01	7/23/2024	S	1	FS18 - 0'		11						X						
10:02	7/23/2024	S	1	FS19 - 0'		12						X						
10:05	7/23/2024	S	1	FS20 - 0'		13						X						
10:07	7/23/2024	S	1	FS21 - 0'		14						X						
10:12	7/23/2024	S	1	FS22 - 0'		15						X						
9:16	7/23/2024	S	1	FS23 - 0'		16						X						
9:17	7/23/2024	S	1	FS24 - 0'		17						X						
9:18	7/23/2024	S	1	FS25 - 0'		18						X						
9:27	7/23/2024	S	1	FS26 - 0'		19						X						
9:32	7/23/2024	S	1	FS27 - 0'		20						X						

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

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

Sampled by: <u>Cole Burton</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<u>Cole Burton</u>	<u>7/24/24</u>	<u>7:30</u>	<u>Michelle Gonzales</u>	<u>7-24-24</u>	<u>1000</u>						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<u>Michelle Gonzales</u>	<u>7/24/24</u>	<u>1635</u>	<u>J.H.</u>	<u>7-24-24</u>	<u>1700</u>						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<u>J.H.</u>	<u>7-24-24</u>	<u>2400</u>	<u>S.D.</u>	<u>7-25-24</u>	<u>0830</u>						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

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

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



Page 119 of 211

Envirotech Analytical Laboratory

Printed: 7/25/2024 11:58:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 07/25/24 08:30	Work Order ID: E407200
Phone: (972) 371-5200	Date Logged In: 07/24/24 15:46	Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com	Due Date: 07/31/24 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Couier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Comments/Resolution

AO 6 State Com TB has been separated into multiple WO due to high sample volume. WO are E407200, E407201 and E407202.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State Com TB

Work Order: E407201

Job Number: 23003-0002

Received: 7/25/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/31/24

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



Project Name: AO 6 State Com TB
Workorder: E407201
Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS28-0'	6
FS29-0'	7
FS30-0'	8
FS31-0'	9
FS32-0'	10
FS33-0'	11
FS34-0'	12
FS35-0'	13
FS36-0'	14
FS37-0'	15
FS38-0'	16
FS39-0'	17
FS40-0'	18
FS41-0'	19
FS42-0'	20
FS43-0'	21
FS44-0'	22
FS45-0'	23
FS46-0'	24
FS47-0'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 15:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS28-0'	E407201-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS29-0'	E407201-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS30-0'	E407201-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS31-0'	E407201-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS32-0'	E407201-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS33-0'	E407201-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS34-0'	E407201-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS35-0'	E407201-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS36-0'	E407201-09A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS37-0'	E407201-10A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS38-0'	E407201-11A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS39-0'	E407201-12A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS40-0'	E407201-13A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS41-0'	E407201-14A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS42-0'	E407201-15A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS43-0'	E407201-16A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS44-0'	E407201-17A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS45-0'	E407201-18A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS46-0'	E407201-19A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS47-0'	E407201-20A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
---	---	---

FS28-0'

E407201-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
o-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.4 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	71.0	25.0	1	07/25/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/29/24	
<i>Surrogate: n-Nonane</i>						
		128 %	50-200	07/25/24	07/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	11500	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
---	---	---

FS29-0'

E407201-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
o-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.5 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	121	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	55.6	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	11200	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS30-0'

E407201-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.3 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	29.0	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		90.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	16300	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS31-0'

E407201-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	36.9	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		92.9 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	7660	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS32-0'

E407201-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		86.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	8240	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS33-0'

E407201-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	5540	40.0	2	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS34-0'

E407201-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
o-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.9 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		171 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	8440	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS35-0'

E407201-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		80.8 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	9730	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS36-0'

E407201-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	1910	20.0	1	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS37-0'

E407201-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		83.8 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	7300	40.0	2	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS38-0'

E407201-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.2 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		92.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	11800	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS39-0'

E407201-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.9 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		89.9 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	11400	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS40-0'

E407201-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		87.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	9380	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS41-0'

E407201-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		95.0 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	5560	40.0	2	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS42-0'

E407201-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.1 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	9670	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS43-0'

E407201-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.8 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		87.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	9520	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS44-0'

E407201-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		88.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	9690	100	5	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS45-0'

E407201-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		95.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	5930	40.0	2	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS46-0'

E407201-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	5400	40.0	2	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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FS47-0'

E407201-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		91.6 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430117
Chloride	5630	40.0	2	07/25/24	07/26/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430094-BLK1)

Prepared: 07/24/24 Analyzed: 07/30/24

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	7.35		8.00		91.8	70-130			

LCS (2430094-BS1)

Prepared: 07/24/24 Analyzed: 07/30/24

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.8	70-130			

LCS Dup (2430094-BSD1)

Prepared: 07/24/24 Analyzed: 07/30/24

Benzene	5.03	0.0250	5.00		101	70-130	0.000996	20	
Ethylbenzene	4.80	0.0250	5.00		95.9	70-130	0.105	20	
Toluene	5.00	0.0250	5.00		100	70-130	0.0430	20	
o-Xylene	4.88	0.0250	5.00		97.7	70-130	0.0942	20	
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130	0.236	20	
Total Xylenes	14.7	0.0250	15.0		98.3	70-130	0.189	20	
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430094-BLK1)

Prepared: 07/24/24 Analyzed: 07/30/24

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

LCS (2430094-BS2)

Prepared: 07/24/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

LCS Dup (2430094-BSD2)

Prepared: 07/24/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0		84.9	70-130	15.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430098-BLK1)

Prepared: 07/25/24 Analyzed: 07/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	51.5		50.0		103	50-200			

LCS (2430098-BS1)

Prepared: 07/25/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: <i>n-Nonane</i>	53.9		50.0		108	50-200			

Matrix Spike (2430098-MS1)

Source: E407201-01

Prepared: 07/25/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	256	25.0	250	71.0	74.0	38-132			
Surrogate: <i>n-Nonane</i>	52.2		50.0		104	50-200			

Matrix Spike Dup (2430098-MSD1)

Source: E407201-01

Prepared: 07/25/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	285	25.0	250	71.0	85.8	38-132	10.9	20	
Surrogate: <i>n-Nonane</i>	54.0		50.0		108	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 3:17:57PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430117-BLK1)

Prepared: 07/25/24 Analyzed: 07/26/24

Chloride	ND	20.0							
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LCS (2430117-BS1)

Prepared: 07/25/24 Analyzed: 07/26/24

Chloride	250	20.0	250		100	90-110			
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Matrix Spike (2430117-MS1)

Source: E407201-01

Prepared: 07/25/24 Analyzed: 07/26/24

Chloride	10400	200	250	11500	NR	80-120			M4
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Matrix Spike Dup (2430117-MSD1)

Source: E407201-01

Prepared: 07/25/24 Analyzed: 07/26/24

Chloride	13200	200	250	11500	681	80-120	24.5	20	M4, R3
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 15:17
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 8/28/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client Information		Invoice Information		Lab Use Only		TAT		State					
Client: Matador Production Company		Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>AOL State Com TB</u>		Address: 3122 National Parks Hwy		<u>E407201</u>	<u>23003-0002</u>				x	x			
Project Manager: Ashley Giovengo		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055									
Address: 3122 National Parks Hwy		Email: agiovengo@ensolum.com		Miscellaneous:									
City, State, Zip: Carlsbad NM, 88220													
Phone: 575-988-0055													
Email: agiovengo@ensolum.com													

Sample Information										Analysis and Method								EPA Program			Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 900.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
9:33	7/23/2024	S	1	FS28 - 0'		1						X									
9:38	7/23/2024	S	1	FS29 - 0'		2						X									
9:44	7/23/2024	S	1	FS30 - 0'		3						X									
9:46	7/23/2024	S	1	FS31 - 0'		4						X									
9:55	7/23/2024	S	1	FS32 - 0'		5						X									
9:58	7/23/2024	S	1	FS33 - 0'		6						X									
10:03	7/23/2024	S	1	FS34 - 0'		7						X									
10:06	7/23/2024	S	1	FS35 - 0'		8						X									
10:11	7/23/2024	S	1	FS36 - 0'		9						X									
10:32	7/23/2024	S	1	FS37 - 0'		10						X									

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

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

Sampled by: Cole Burton

Relinquished by: (Signature) <u>Cole Burton</u>	Date 7/24/24	Time 7:30	Received by: (Signature) <u>Michelle Gonzales</u>	Date 7-24-24	Time 1000	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 7-24-24	Time 1635	Received by: (Signature) <u>C.M.</u>	Date 7-24-24	Time 1700	
Relinquished by: (Signature) <u>C.M.</u>	Date 7-24-24	Time 2400	Received by: (Signature) <u>SB</u>	Date 7-25-24	Time 0830	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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



Page 151 of 211

Chain of Custody

Released to Imaging: 8/28/2024 3:59:54 PM

Received by: OCD: 8/26/2024 2:52:38 PM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>AO 6 State Com TB</u>				Address: 3122 National Parks Hwy				E407201		23003-0002					x	x			
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agioveno@ensolum.com																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCFQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Remarks			
10:34	7/23/2024	S	1	FS38 - 0'			11						X						
10:35	7/23/2024	S	1	FS39 - 0'			12						X						
10:36	7/23/2024	S	1	FS40 - 0'			13						X						
10:37	7/23/2024	S	1	FS41 - 0'			14						X						
10:43	7/23/2024	S	1	FS42 - 0'			15						X						
10:44	7/23/2024	S	1	FS43 - 0'			16						X						
10:38	7/23/2024	S	1	FS44 - 0'			17						X						
10:39	7/23/2024	S	1	FS45 - 0'			18						X						
10:40	7/23/2024	S	1	FS46 - 0'			19						X						
10:45	7/23/2024	S	1	FS47 - 0'			20						X						
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Cole Burton																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								Lab Use Only			
Michelle Gonzalez		7-24-24	1635	Michelle Gonzalez		7-24-24	1700									Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
D.J.		7-24-24	2400	D.J.		7-25-24	0830									T1 _____ T2 _____ T3 _____			
																AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Page 152 of 211

Envirotech Analytical Laboratory

Printed: 7/25/2024 11:59:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 07/25/24 08:30 Work Order ID: E407201
Phone: (972) 371-5200 Date Logged In: 07/24/24 15:53 Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com Due Date: 07/31/24 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Couier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

AO 6 State Com TB has been separated into multiple WO due to high sample volume. WO are E407200, E407201 and E407202.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State Com TB

Work Order: E407202

Job Number: 23003-0002

Received: 7/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/31/24

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



Project Name: AO 6 State Com TB
Workorder: E407202
Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS48-0'	5
FS49-0'	6
FS50-0'	7
FS51-0'	8
FS52-0'	9
FS53-0'	10
FS54-0'	11
FS55-0'	12
QC Summary Data	13
QC - Volatile Organic Compounds by EPA8260B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 09:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS48-0'	E407202-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS49-0'	E407202-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS50-0'	E407202-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS51-0'	E407202-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS52-0'	E407202-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS53-0'	E407202-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS54-0'	E407202-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS55-0'	E407202-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS48-0'

E407202-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		97.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		97.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	28.1	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		93.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: WF		Batch: 2430113
Chloride	7730	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS49-0'

E407202-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	7730	200	10	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS50-0'

E407202-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	1870	20.0	1	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS51-0'

E407202-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	30.1	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	8920	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS52-0'

E407202-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2430107	
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.2 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2430107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.2 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430097	
Diesel Range Organics (C10-C28)	29.8	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		84.8 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	10000	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS53-0'

E407202-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	10200	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS54-0'

E407202-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	9350	200	10	07/25/24	07/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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FS55-0'

E407202-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2430107	
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		96.5 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2430107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	07/25/24	07/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	07/25/24	07/26/24	
<i>Surrogate: Toluene-d8</i>		96.5 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2430097	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	8830	200	10	07/25/24	07/26/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD % %	RPD Limit %	Notes
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Blank (2430107-BLK1)

Prepared: 07/25/24 Analyzed: 07/26/24

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	0.513		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8		70-130		
Surrogate: Toluene-d8	0.492		0.500		98.3		70-130		

LCS (2430107-BS1)

Prepared: 07/25/24 Analyzed: 07/26/24

Benzene	2.35	0.0250	2.50		94.1		70-130		
Ethylbenzene	2.48	0.0250	2.50		99.1		70-130		
Toluene	2.32	0.0250	2.50		92.7		70-130		
o-Xylene	2.46	0.0250	2.50		98.6		70-130		
p,m-Xylene	4.91	0.0500	5.00		98.1		70-130		
Total Xylenes	7.37	0.0250	7.50		98.3		70-130		
Surrogate: Bromofluorobenzene	0.506		0.500		101		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5		70-130		
Surrogate: Toluene-d8	0.495		0.500		99.0		70-130		

Matrix Spike (2430107-MS1)

Source: E407202-01

Prepared: 07/25/24 Analyzed: 07/26/24

Benzene	2.38	0.0250	2.50	ND	95.0		48-131		
Ethylbenzene	2.47	0.0250	2.50	ND	98.9		45-135		
Toluene	2.31	0.0250	2.50	ND	92.2		48-130		
o-Xylene	2.47	0.0250	2.50	ND	98.8		43-135		
p,m-Xylene	4.91	0.0500	5.00	ND	98.1		43-135		
Total Xylenes	7.38	0.0250	7.50	ND	98.3		43-135		
Surrogate: Bromofluorobenzene	0.518		0.500		104		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5		70-130		
Surrogate: Toluene-d8	0.492		0.500		98.3		70-130		

Matrix Spike Dup (2430107-MSD1)

Source: E407202-01

Prepared: 07/25/24 Analyzed: 07/26/24

Benzene	2.42	0.0250	2.50	ND	96.9		48-131	2.02	23
Ethylbenzene	2.55	0.0250	2.50	ND	102		45-135	3.01	27
Toluene	2.36	0.0250	2.50	ND	94.5		48-130	2.42	24
o-Xylene	2.58	0.0250	2.50	ND	103		43-135	4.26	27
p,m-Xylene	5.09	0.0500	5.00	ND	102		43-135	3.59	27
Total Xylenes	7.66	0.0250	7.50	ND	102		43-135	3.82	27
Surrogate: Bromofluorobenzene	0.512		0.500		102		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7		70-130		
Surrogate: Toluene-d8	0.492		0.500		98.3		70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430107-BLK1)

Prepared: 07/25/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2430107-BS2)

Prepared: 07/25/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2430107-MS2)

Source: E407202-01

Prepared: 07/25/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2430107-MSD2)

Source: E407202-01

Prepared: 07/25/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	3.26	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430097-BLK1)

Prepared: 07/25/24 Analyzed: 07/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.2		50.0		110	50-200			

LCS (2430097-BS1)

Prepared: 07/25/24 Analyzed: 07/27/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.4	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike (2430097-MS1)

Source: E407188-04

Prepared: 07/25/24 Analyzed: 07/27/24

Diesel Range Organics (C10-C28)	6180	125	250	5870	123	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			

Matrix Spike Dup (2430097-MSD1)

Source: E407188-04

Prepared: 07/25/24 Analyzed: 07/27/24

Diesel Range Organics (C10-C28)	6430	125	250	5870	223	38-132	3.97	20	M4
Surrogate: n-Nonane	54.6		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:13:56AM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430113-BLK1)

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	ND	20.0							
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LCS (2430113-BS1)

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	249	20.0	250		99.8	90-110			
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Matrix Spike (2430113-MS1)

Source: E407196-03

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	490	20.0	250	268	88.6	80-120			
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Matrix Spike Dup (2430113-MSD1)

Source: E407196-03

Prepared: 07/25/24 Analyzed: 07/25/24

Chloride	520	20.0	250	268	101	80-120	5.90	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 09:13
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

23003-0002

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: <u>AO 6 State Com TB</u>		Address: 3122 National Parks Hwy		<u>E407202</u>	<u>23077-0001</u>				X	X																																	
Project Manager: Ashley Giovengo		City, State, Zip: Carlsbad NM, 88220		<u>N.S 7-25-24</u>																																							
Address: 3122 National Parks Hwy		Phone: 575-988-0055		<table border="1"> <tr> <th colspan="8">Analysis and Method</th> <th colspan="3">EPA Program</th> </tr> <tr> <td rowspan="3">DRO/DRO by 8015</td> <td rowspan="3">GRO/DRO by 8015</td> <td rowspan="3">BTEX by 8021</td> <td rowspan="3">VOC by 8260</td> <td rowspan="3">Chloride 300.0</td> <td rowspan="3">BGDOC - NM</td> <td rowspan="3">TCEQ 1005 - TX</td> <td rowspan="3">RCRA 8 Metals</td> <td>SDWA</td> <td>CWA</td> <td>RCRA</td> </tr> <tr> <td>Compliance</td> <td>Y</td> <td>or</td> <td>N</td> </tr> <tr> <td>PWSID #</td> <td colspan="3"></td> </tr> </table>										Analysis and Method								EPA Program			DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #			
Analysis and Method														EPA Program																													
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260											Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA																							
				Compliance	Y	or	N																																				
				PWSID #																																							
City, State, Zip: Carlsbad NM, 88220		Email: agiovengo@ensolum.com		Remarks																																							
Phone: 575-988-0055		Miscellaneous:																																									
Email: agiovengo@ensolum.com																																											

Sample Information															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
10:46	7/23/2024	S	1	FS48 - 0'		1						X			
10:47	7/23/2024	S	1	FS49 - 0'		2						X			
10:50	7/23/2024	S	1	FS50 - 0'		3						X			
10:50	7/23/2024	S	1	FS51 - 0'		4						X			
10:51	7/23/2024	S	1	FS52 - 0'		5						X			
10:54	7/23/2024	S	1	FS53 - 0'		6						X			
10:54	7/23/2024	S	1	FS54 - 0'		7						X			
10:55	7/23/2024	S	1	FS55 - 0'		8						X			

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

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

Sampled by: <u>Cole Burton</u>						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Cole Burton</u>	Date <u>7/24/24</u>	Time <u>7:30</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-24-24</u>	Time <u>7:30</u>	
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-24-24</u>	Time <u>1635</u>	Received by: (Signature) <u>J.H.</u>	Date <u>7-24-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>J.H.</u>	Date <u>7-24-24</u>	Time <u>2400</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-25-24</u>	Time <u>0830</u>	

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

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

Released to Imaging: 8/28/2024 3:59:54 PM

Received by: OCD: 8/26/2024 2:52:38 PM

Page 171 of 211



Envirotech Analytical Laboratory

Printed: 7/25/2024 12:00:29PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 07/25/24 08:30 Work Order ID: E407202
Phone: (972) 371-5200 Date Logged In: 07/24/24 15:57 Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com Due Date: 07/31/24 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Couier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

AO 6 State Com TB has been separated into multiple WO due to high sample volume. WO are E407200, E407201 and E407202.

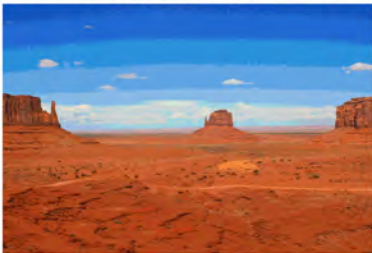
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: AO 6 State Com TB

Work Order: E408117

Job Number: 23003-0002

Received: 8/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/16/24

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



Project Name: AO 6 State Com TB
Workorder: E408117
Date Received: 8/13/2024 9:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/13/2024 9:45:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS14-0.5'	5
FS15-0.5'	6
FS16-0'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/16/24 14:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS14-0.5'	E408117-01A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS15-0.5'	E408117-02A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS16-0'	E408117-03A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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FS14-0.5'
E408117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.1 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433043
Diesel Range Organics (C10-C28)	33.0	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433048
Chloride	941	20.0	1	08/13/24	08/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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FS15-0.5'

E408117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	0.0316	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	0.0747	0.0500	1	08/13/24	08/13/24	
Total Xylenes	0.106	0.0250	1	08/13/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2433043
Diesel Range Organics (C10-C28)	92.9	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2433048
Chloride	2610	40.0	2	08/13/24	08/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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FS16-0'

E408117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
o-Xylene	ND	0.0250	1	08/13/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2433037
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2433043
Diesel Range Organics (C10-C28)	ND	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2433048
Chloride	4100	40.0	2	08/13/24	08/13/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433037-BLK1)

Prepared: 08/13/24 Analyzed: 08/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8			70-130	

LCS (2433037-BS1)

Prepared: 08/13/24 Analyzed: 08/13/24

Benzene	5.20	0.0250	5.00		104			70-130	
Ethylbenzene	4.87	0.0250	5.00		97.4			70-130	
Toluene	5.11	0.0250	5.00		102			70-130	
o-Xylene	4.94	0.0250	5.00		98.9			70-130	
p,m-Xylene	10.0	0.0500	10.0		100			70-130	
Total Xylenes	15.0	0.0250	15.0		99.8			70-130	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.2			70-130	

Matrix Spike (2433037-MS1)

Source: E408115-12

Prepared: 08/13/24 Analyzed: 08/13/24

Benzene	5.40	0.0250	5.00	ND	108			54-133	
Ethylbenzene	5.06	0.0250	5.00	ND	101			61-133	
Toluene	5.31	0.0250	5.00	ND	106			61-130	
o-Xylene	5.14	0.0250	5.00	ND	103			63-131	
p,m-Xylene	10.4	0.0500	10.0	ND	104			63-131	
Total Xylenes	15.6	0.0250	15.0	ND	104			63-131	
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.6			70-130	

Matrix Spike Dup (2433037-MSD1)

Source: E408115-12

Prepared: 08/13/24 Analyzed: 08/13/24

Benzene	5.23	0.0250	5.00	ND	105		3.05	20	
Ethylbenzene	4.90	0.0250	5.00	ND	98.1		3.08	20	
Toluene	5.15	0.0250	5.00	ND	103		3.16	20	
o-Xylene	4.98	0.0250	5.00	ND	99.7		3.14	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101		3.12	20	
Total Xylenes	15.1	0.0250	15.0	ND	101		3.13	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4			70-130	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433037-BLK1)

Prepared: 08/13/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			

LCS (2433037-BS2)

Prepared: 08/13/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

Matrix Spike (2433037-MS2)

Source: E408115-12

Prepared: 08/13/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			

Matrix Spike Dup (2433037-MSD2)

Source: E408115-12

Prepared: 08/13/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130	2.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433043-BLK1)

Prepared: 08/13/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			

LCS (2433043-BS1)

Prepared: 08/13/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			

Matrix Spike (2433043-MS1)

Source: E408116-07

Prepared: 08/13/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike Dup (2433043-MSD1)

Source: E408116-07

Prepared: 08/13/24 Analyzed: 08/13/24

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132	0.128	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/16/2024 2:22:07PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433048-BLK1)

Prepared: 08/13/24 Analyzed: 08/13/24

Chloride	ND	20.0							
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LCS (2433048-BS1)

Prepared: 08/13/24 Analyzed: 08/13/24

Chloride	251	20.0	250		100	90-110			
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Matrix Spike (2433048-MS1)

Source: E408111-01

Prepared: 08/13/24 Analyzed: 08/13/24

Chloride	340	20.0	250	67.5	109	80-120			
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Matrix Spike Dup (2433048-MSD1)

Source: E408111-01

Prepared: 08/13/24 Analyzed: 08/13/24

Chloride	322	20.0	250	67.5	102	80-120	5.38	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AO 6 State Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/16/24 14:22
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 8/28/2024 3:59:54 PM

Received by OCD: 8/26/2024 2:52:38 PM

Client Information				Invoice Information				Lab Use Only				TAT				State						
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX			
Project: AO 6 State Com TB				Address: 3122 National Parks Hwy				E408117		23003-0002					X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																		
Address: 3122 National Parks Hwy				Phone: 575-988-0055																		
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																		
Phone: 575-988-0055				Miscellaneous:																		
Email: agiovengo@ensolum.com																						
Sample Information										Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ.1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	
9:40	8/9/2024	S	1	FS14 - 0.5'		1						X										
10:58	8/9/2024	S	1	FS15 - 0.5'		2						X										
8:24	8/9/2024	S	1	FS16 - 0'		3						X										
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: Chad Hamilton																						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																
<i>[Signature]</i>	8/12/24	1045	<i>Michelle Gonzales</i>	8-12-24	1045	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																	
<i>Michelle Gonzales</i>	8-12-24	1540	<i>Andrew Hobbs</i>	8-12-24	1630																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																	
<i>Andrew Hobbs</i>	8-12-24	2300	<i>[Signature]</i>	8-13-24	0945																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____												
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



Page 185 of 211

Envirotech Analytical Laboratory

Printed: 8/13/2024 9:49:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 08/13/24 00:00	Work Order ID: E408117
Phone: (972) 371-5200	Date Logged In: 08/12/24 15:33	Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com	Due Date: 08/19/24 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E
NMOCD Notifications

From: [Wells, Shelly, EMNRD](#)
To: [Ashley Giovengo](#); [Jason Touchet](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - AO 6 State Com TB - Incident Number nAPP2413542400
Date: Tuesday, August 13, 2024 2:42:38 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

Hi Ashley,

The extension request for NAPP2413542400 AO 6 STATE COM TB is approved. The new due date to submit your remediation closure report to the OCD is November 11, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Tuesday, August 13, 2024 1:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - AO 6 State Com TB - Incident Number nAPP2413542400

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All,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 12, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the AO 6 State Com TB (Site) (Incident Number nAPP2413542400). The release occurred on May 13, 2024, and lateral and vertical delineation sampling to the

strictest Closure Criteria per NMOCD Table I has been completed. Ensolum personnel oversaw the excavation of the on-pad release area beginning on July 22, 2024, through July 23, 2024. Following excavation activities, Ensolum personnel collected confirmation samples every 200 square feet from the floor and sidewalls of the excavation. Based on laboratory analytical results, 3 confirmation floor samples exceeded the Site Closure Criteria. Ensolum will return to the Site on August 09, 2024, to complete additional excavation activities and to recollect the 3 failing confirmation samples. Matador intends to submit a remediation work plan or closure report, upon receiving final laboratory analytical results from confirmation sampling activities. Matador respectfully requests an extension until November 10, 2024.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

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“Your authenticity is your superpower.” – Unknown

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

QUESTIONS

Action 347294

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 347294
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	5,652
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	05/30/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	N/A
Please provide any information necessary for navigation to liner inspection site	32.4164063,-103.6039982

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CONDITIONS

Action 347294

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 347294
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	5/23/2024

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QUESTIONS

Action 364958

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364958
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	10,865
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/22/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982

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CONDITIONS

Action 364958

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364958
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/17/2024

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QUESTIONS

Action 364960

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364960
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	10,865
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/23/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982

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CONDITIONS

Action 364960

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364960
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/17/2024

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QUESTIONS

Action 370783

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370783
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982

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CONDITIONS

Action 370783

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 370783
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

From: [Ashley Giovengo](#)
To: [Wells, Shelly, EMNRD](#)
Cc: [Jason Touchet](#); [Cole Burton](#); [Chad Hamilton](#)
Subject: [EXTERNAL] RE: NAPP2413542400 AO 6 STATE COM TB
Date: Wednesday, August 28, 2024 11:57:33 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[20240530 liner inspection.pdf](#)

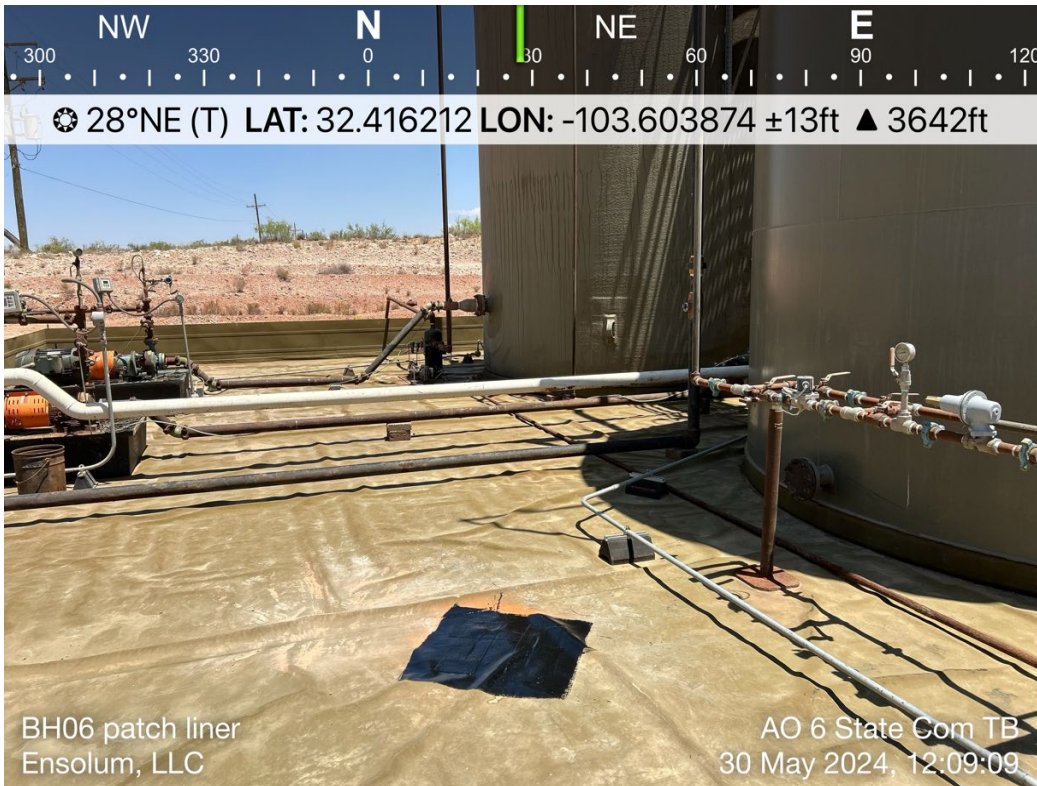
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Shelly,

The release was the result of the SWD line that runs from inside the tank battery containment to the main SWD pipeline. The leaking pipe sprayed produced water into the secondary tank containment. The containment was pressured washed prior to completing the liner integrity inspection on May 30, 2024. I have attached the signed liner integrity inspection sheet for your reference.

Two holes were identified in the containment liner, 1 on the southeast corner of the containment and the 2nd hole was found on the southwest corner of the containment. Ensolum personnel advanced boreholes directly beneath the holes in the containment liner via hand auger. I have included photos of the holes from the liner inspection and photos of where my team patched the liner when the delineation sampling was completed. Please let me know if you need any additional information.





Thanks,

Ashley Giovengo
Senior Scientist
575-988-0055



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“Your authenticity is your superpower.” – Unknown

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, August 28, 2024 10:51 AM

To: Ashley Giovengo <agiovengo@ensolum.com>

Subject: NAPP2413542400 AO 6 STATE COM TB

[**EXTERNAL EMAIL**]

Good morning Ashley,

I am reviewing the report submitted for NAPP2413542400 AO 6 STATE COM TB and have some questions for you. How did the portion of the release that ended up outside containment get there? Did the containment overflow?

In the report it states that BH05 and BH06 “were advanced in the general vicinity of the damaged liner via hand auger.” The words “general vicinity” leave more questions than answers for me. Were there two tears/holes? Was each borehole advanced immediately beneath the tear?

Finally, whenever a liner is torn the OCD needs to know it was repaired. Was it repaired? If so, can you provide photos?

These are all the questions I have. I look forward to hearing what you have to say.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Liner Integrity Inspection Form

Site Name: AD 6 state Conn TB.

Company: Matador Production Company

Date: 5/30/24.

48-Hour Notification Given On: _____

Responsible party has Visually inspected the liner Y N

Liner Remains Intact Y N

Liner had the ability to contain the leak in question Y N

Notes:

2 perforations found on liner.

- 1- SE corner of containment
- 2- SW corner of containment

Company Representative (s)

Israel Estrella



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QUESTIONS

Action 377703

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM 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	AO 6 STATE COM TB
Date Release Discovered	05/13/2024
Surface Owner	State

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: Equipment Failure Pipeline (Any) Produced Water Released: 165 BBL Recovered: 100 BBL Lost: 65 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/26/2024
--	--

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QUESTIONS, Page 3

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	27600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5490
GRO+DRO (EPA SW-846 Method 8015M)	4010
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	07/22/2024
On what date will (or did) the final sampling or liner inspection occur	08/09/2024
On what date will (or was) the remediation complete(d)	08/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	10865
What is the estimated volume (in cubic yards) that will be remediated	182

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	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 Hobbs
(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: 08/26/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I
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 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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 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, Page 5

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	370783
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10865
What was the total volume (cubic yards) remediated	182
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	This spill was entirely on-pad and therefore the release area falls under the Site Closure Criteria

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: 08/26/2024
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QUESTIONS, Page 7

Action 377703

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 377703

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377703
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/28/2024