



September 13, 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
Voni West TB
Incident Number nAPP2417323765
Eddy 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 Voni West TB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following 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 nAPP2417323765.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 21, Township 26 South, Range 31 East, in Eddy County, New Mexico (32.03498°, -103.78557°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 20, 2024, a nipple on the saltwater disposal (SWD) discharge pump failed, resulting in the release of approximately 62 barrels (bbls) of produced water onto the caliche pad and overspray into the lined secondary tank containment. A vacuum truck successfully recovered 15 bbls of produced water. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via on the NMOCD Portal June 21, 2024, and submitted a Release Notification Form C-141 (Form C-141) on June 24, 2024. The release was assigned Incident Number nAPP2417323765. The Form C-141 can be referenced on the NMOCD Portal. A 48-hour advanced notice was submitted via web portal to NMOCD for a Liner Integrity Inspection on August 7, 2024, and the inspection was completed by Ensolum personnel on August 13, 2024. The liner was found to remain intact and had the ability to contain the release in question.

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 page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, C-4769 POD1, located approximately 0.36 miles east of the Site. The well had a reported depth to groundwater greater than 101 feet below ground surface (bgs) and a total depth of 101 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland area, located approximately 3,168 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium 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 June 27, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ten preliminary soil samples (SS01 through SS10) were collected around the release extent at ground surface to assess the lateral extent of the impacted area. Five boreholes (BH01 through BH05) were advanced within the release extent to assess the vertical extent of impacted soil; borehole BH01 was advanced to a depth of 4 feet bgs and boreholes BH02 through BH05 were advanced to a depth of 3 feet bgs. The preliminary soil samples were field screened for chloride utilizing Mohr Method titration. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

On August 13, 2024, Ensolum personnel returned to the Site to conduct a Liner Integrity Inspection. It was determined the liner remained intact and had the ability to contain the release in question.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On August 26 and 27, 2024, impacted soil was excavated via surface scrape from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a backhoe, hydrovac, hand digging, and belly dump trucks. The excavation occurred on the north side of the lined secondary tank containment and around associated production equipment. To direct excavation activities, Ensolum personnel screened soil for chloride utilizing chloride QuanTab® test strips and for TPH utilizing a PetroFLAG® soil analyzer system.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at least 400 square feet from the floor of the scrape. 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 FS37) were collected from the floor of the excavation just beneath the scraped surface (0 feet bgs). Due to the shallow nature of the excavation, sidewall soil was incorporated into the floor confirmation samples. A confirmation sampling variance request was emailed to NMOCD on August 7, 2024, and approved by Nelson Velez of the NMOCD on August 7, 2024, to increase the sampling area to every 400 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation, where applicable. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 15,039 square feet. A total of approximately 30 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples (SS01 through SS10) were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I at ground surface. Laboratory analytical results for boreholes (BH01 through BH05) indicated all COCs were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for borehole BH01 indicated COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at 4 feet bgs and 1-foot bgs in borehole sample locations BH02 through BH05.

Laboratory analytical results for excavation floor soil samples (FS01 through FS37) indicated all COC concentrations were compliant with the Site Closure Criteria at ground surface. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 2024 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 101 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of

Voni West TB



human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2417323765.

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".

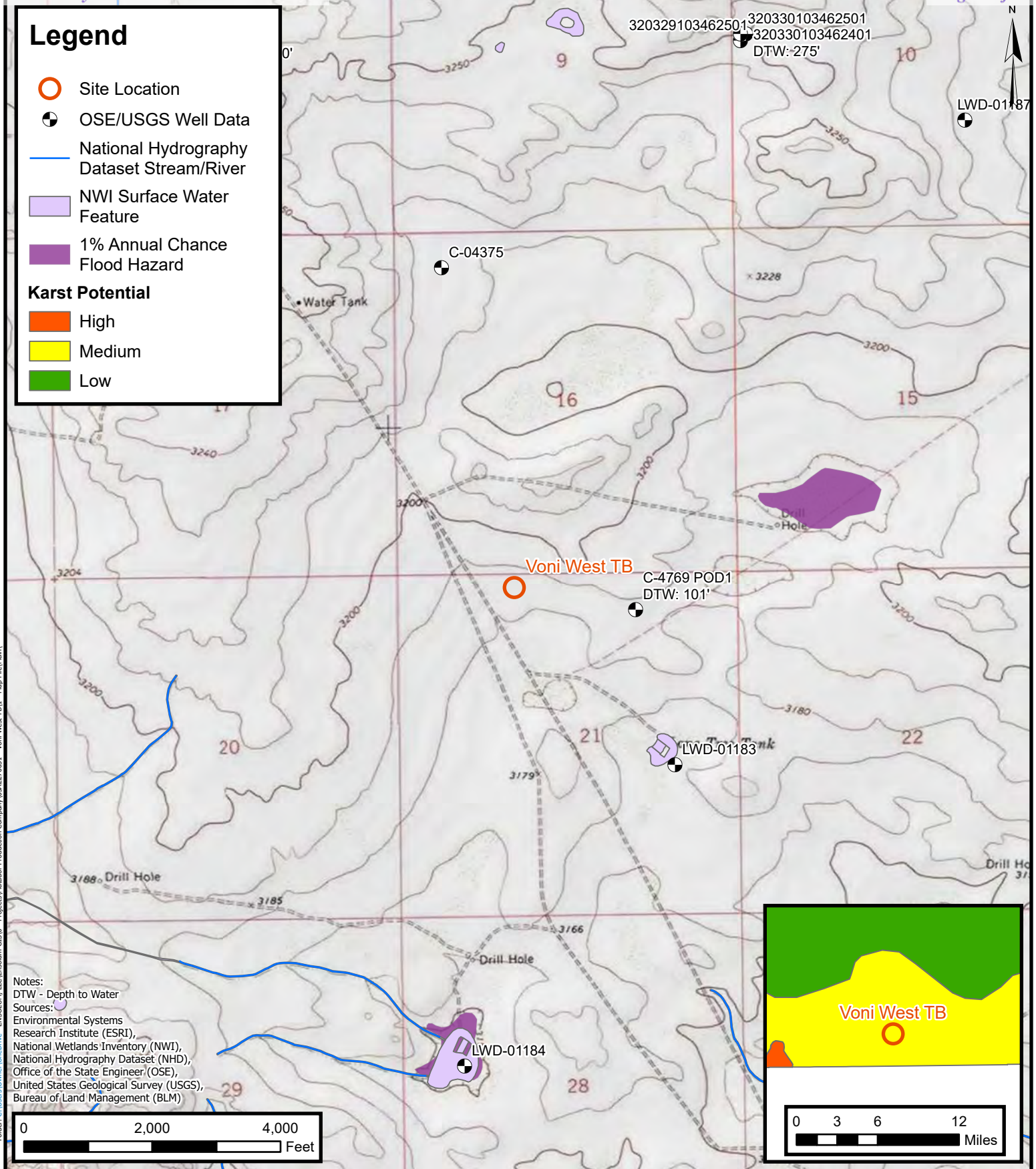
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

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	NMOCD Notifications



FIGURES



Site Receptor Map

Matador Production Company

Voni West TB

Incident Number: nAPP2406051763

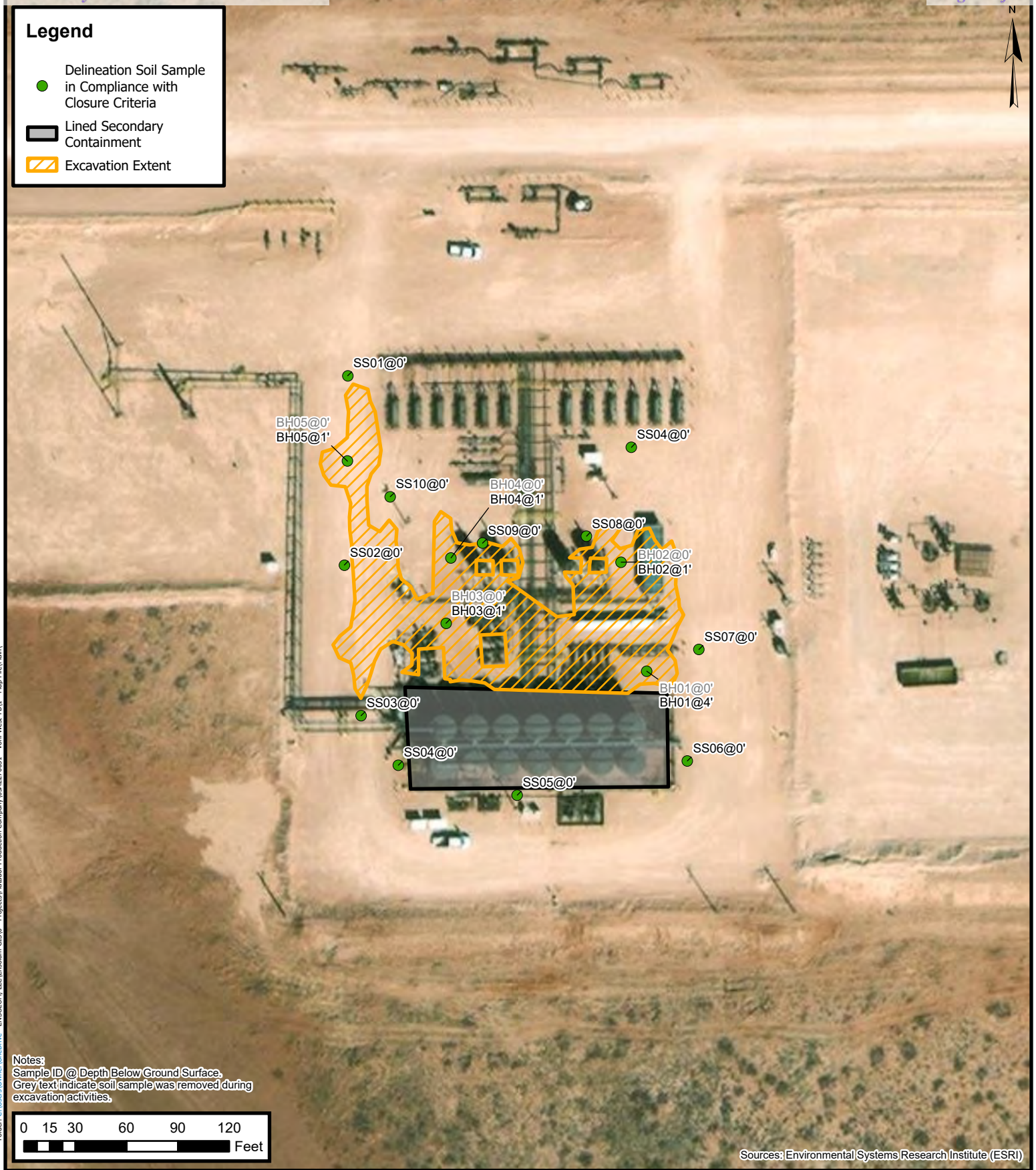
Unit C, Section 21, Township 26S, Range 31E

Eddy County, New Mexico

FIGURE

1








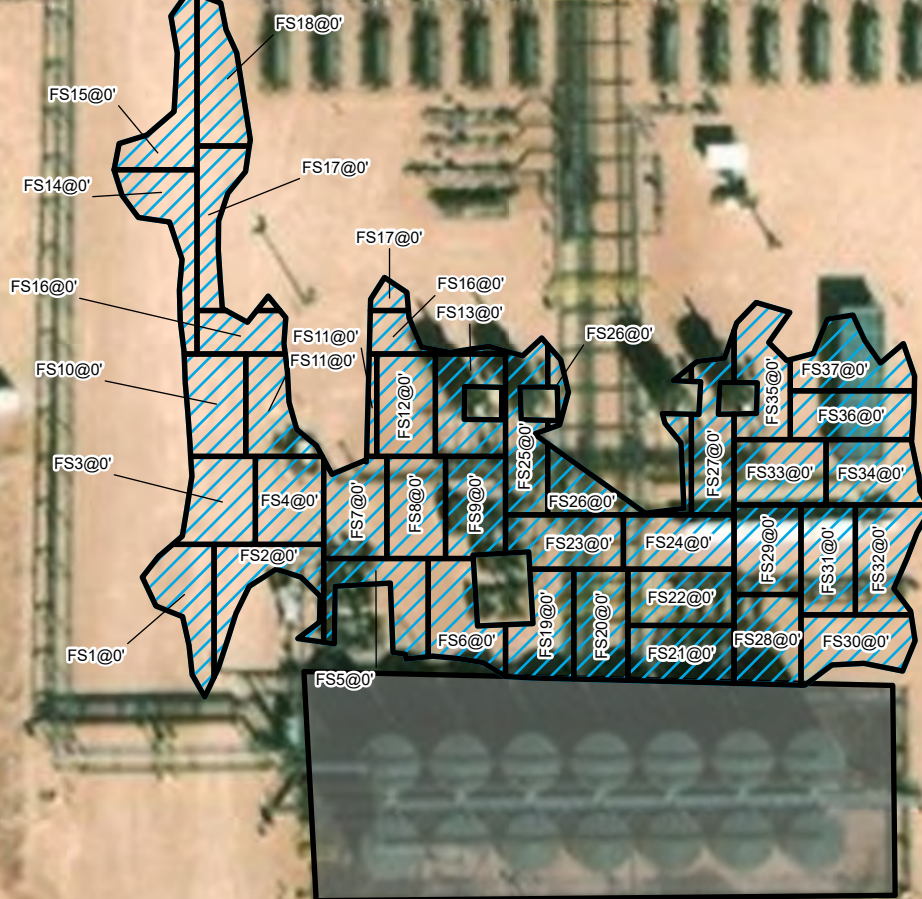
Delineation Soil Sample Locations

Matador Production Company
Voni West TB
Incident Number: nAPP2406051763
Unit C, Section 21, Township 26S, Range 31E
Eddy County, New Mexico

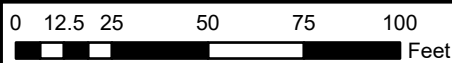
FIGURE
2

Legend

-  Lined Secondary Containment
-  Excavation Extent
-  Sample Grid



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

Matador Production Company
Voni West TB
Incident Number: nAPP2406051763
Unit C, Section 21, Township 26S, Range 31E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Voni West TB
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.6
SS02	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	324
SS03	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.3
SS04	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	278
SS05	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
SS06	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	429
SS07	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	374
SS08	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	186
SS09	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	388
SS10	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
BH01	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,500
BH01	6/27/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
BH02	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,920
BH02	6/27/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.2
BH03	6/27/2024	0	<0.0250	<0.0500	<20.0	43.8	<50.0	43.8	43.8	5,690
BH03	6/27/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.3
BH04	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,530
BH04	6/27/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.4
BH05	6/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,800
BH05	6/27/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.6

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
 Voni West TB
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	8/26/2024	0	<0.0250	<0.0500	<20.0	45.6	<50.0	45.6	45.6	4,420
FS02	8/26/2024	0	<0.0250	<0.0500	<20.0	147	160.0	147	307.0	1,920
FS03	8/26/2024	0	<0.0250	<0.0500	<20.0	36.9	<50.0	36.9	36.9	1,630
FS04	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,330
FS05	8/26/2024	0	<0.0250	<0.0500	<20.0	28.6	<50.0	28.6	28.6	3,210
FS06	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	11,400
FS07	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,450
FS08	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,910
FS09	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,280
FS10	8/26/2024	0	<0.0250	<0.0500	<20.0	37.4	<50.0	37.4	37.4	3,140
FS11	8/26/2024	0	<0.0250	<0.0500	<20.0	71.4	<50.0	71.4	71.4	4,640
FS12	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,220
FS13	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS14	8/26/2024	0	<0.0250	<0.0500	<20.0	631	210.0	631	841.0	2,490
FS15	8/26/2024	0	<0.0250	<0.0500	<20.0	45.3	51.7	45.3	97.0	4,200
FS16	8/26/2024	0	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	37.9	2,650
FS17	8/26/2024	0	<0.0250	<0.0500	<20.0	87.9	105.0	87.9	192.9	1,740
FS18	8/26/2024	0	<0.0250	<0.0500	<20.0	103	91.2	103	194.2	2,830
FS19	8/26/2024	0	<0.0250	<0.0500	<20.0	25.9	<50.0	25.9	25.9	8,590
FS20	8/27/2024	0	<0.0250	0.36400	40.1	122	<50.0	162.1	162.1	6,850
FS21	8/27/2024	0	<0.0250	<0.0500	<20.0	40.5	<50.0	40.5	40.5	8,390
FS22	8/27/2024	0	<0.0250	<0.0500	<20.0	232	91.1	232	323.1	10,300
FS23	8/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,520
FS24	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,950
FS25	8/26/2024	0	<0.0250	<0.0500	<20.0	291	114.0	<25.0	<50.0	1,310
FS26	8/26/2024	0	<0.0250	<0.0500	<20.0	70.9	60.9	70.9	131.8	2,500
FS27	8/27/2024	0	<0.0250	<0.0500	<20.0	39.5	<50.0	39.5	39.5	11,600



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Voni West TB
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS28	8/27/2024	0	<0.0250	<0.0500	<20.0	191	61.6	191	252.6	11,500
FS29	8/27/2024	0	<0.0250	<0.0500	<20.0	275	119.0	275	394.0	10,600
FS30	8/27/2024	0	<0.0250	<0.0500	<20.0	35.6	<50.0	35.6	35.6	8,880
FS31	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,130
FS32	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,800
FS33	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,480
FS34	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	11,000
FS35	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,250
FS36	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,750
FS37	8/27/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,000

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log & Record



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

September 13, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4769Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4769 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII SEP 14 2023 PM 2:40



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4769			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson Fwy Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 1.66	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	46	46.92	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 21 T26S R31E, NMPM								
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 09/08/2023	DRILLING ENDED 09/08/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±101	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	DATE STATIC MEASURED 9/13/2023		
	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					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FOR OSE INTERNAL USE

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4769- POD-1

Well owner: Matador Production Company

Phone No.: 337-319-8398

Mailing address: 5400 Lyndon B Johnson Fwy Suite 1500

City: Dallas State: Texas Zip code: 75240

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cameron Pruitt
- 4) Date well plugging began: 09/12/2023 Date well plugging concluded: 09/12/2023
- 5) GPS Well Location: Latitude: 32 deg, 2 min, 1.66 sec
Longitude: 103 deg, 46 min, 46.92 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 09/01/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT SEP 14 2023 PM 2:40

- For each interval plugged, describe within the following columns:**

USE DU SEP 14 2023 PM 2:40

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

9/13/2023

Date _____






WR-20 Well Record and Log-packet-forsign

Final Audit Report

2023-09-13

Created:	2023-09-13
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA914YOThcZ6aUF6b7ZuFDIABkPmUK-QM_

"WR-20 Well Record and Log-packet-forsign" History


-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-09-13 - 8:05:20 PM GMT- IP address: 24.40.85.191
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-09-13 - 8:05:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-09-13 - 8:49:20 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-09-13 - 8:52:34 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-09-13 - 8:52:34 PM GMT


07:40 PM SEP 14 2023





APPENDIX B


Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 6/28/24	
								Site Name: Voni West TB			
								Incident Number: nAPP2417323765			
								Job Number: 03A2270051			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.0344, -103.7856								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted utilizing Mohr Method Titration for chloride.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH01	0	0	CCHE	Caliche - Tan, staining, slight odor			
M	>3,623		N	BH01	1	1	SP-SM	Sand/silt - Dark Brown, no staining			
M	2,637		N	BH01	2	2					
M	3,300		N	BH01	3	3	SP-SM	Sand/silt - Light Brown, no staining			
D	200		N	BH01	4	4					
Total Depth = 4'											

								Sample Name: BH02		Date: 6/28/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Voni West TB			
								Incident Number: nAPP2417323765			
								Job Number: 03A2270051			
Coordinates: 32.0345, -103.7856								Logged By: Cole Burton		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 3'			
Comments: Field screening conducted utilizing Mohr Method Titration for chloride.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH02	0	0	CCHE	Caliche - Tan, staining, slight odor			
M	<200		N	BH02	1	1	SP-SM	Sand/silt - Dark Brown, no staining			
M			N	BH02	2	2					
M			N	BH02	3	3	SP-SM	Sand/silt - Light Brown, no staining			
Total Depth = 3'											

								Sample Name: BH03		Date: 6/28/24					
								Site Name: Voni West TB							
								Incident Number: nAPP2417323765							
								Job Number: 03A2270051							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger					
Coordinates: 32.0347, -103.7861								Hole Diameter: 3"		Total Depth: 3'					
Comments: Field screening conducted utilizing Mohr Method Titration for chloride.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
M			Y	BH03	0	0	CCHE	Caliche - Tan, staining, slight odor							
M	<200		N	BH03	1	1	SP-SM	Sand/silt - Dark Brown, no staining							
M			N	BH03	2	2									
M			N	BH03	3	3	CCHE	Caliche - Tan, no odor							
Total Depth = 3'															

								Sample Name: BH04		Date: 6/28/24	
								Site Name: Voni West TB			
								Incident Number: nAPP2417323765			
								Job Number: 03A2270051			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.0345, -103.7859								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted utilizing Mohr Method Titration for chloride.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH04	0	0	CCHE	Caliche - Tan, staining, slight odor			
M	<200		N	BH04	1	1	SP-SM	Sand/silt - Dark Brown, no staining			
M	<200		N	BH04	2	2					
M			N	BH04	3	3	SP-SM	Sand/silt - Light Brown, no staining			
Total Depth = 3'											

								Sample Name: BH05		Date: 6/28/24	
								Site Name: Voni West TB			
								Incident Number: nAPP2417323765			
								Job Number: 03A2270051			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.0347, -103.7861								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted utilizing Mohr Method Titration for chloride.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH05	0	0	CCHE	Caliche - Tan, staining, slight odor			
M	<200		N	BH05	1	1	SP-SM	Sand/silt - Dark Brown, no staining			
M	<200		N	BH05	2	2					
M			N	BH05	3	3	SP-SM	Sand/silt - Light Brown, no staining			
Total Depth = 3'											



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

Voni West TB

nAPP2417323765



Photograph 1

Date: 06/20/2024

Description: Release Extent

View: North

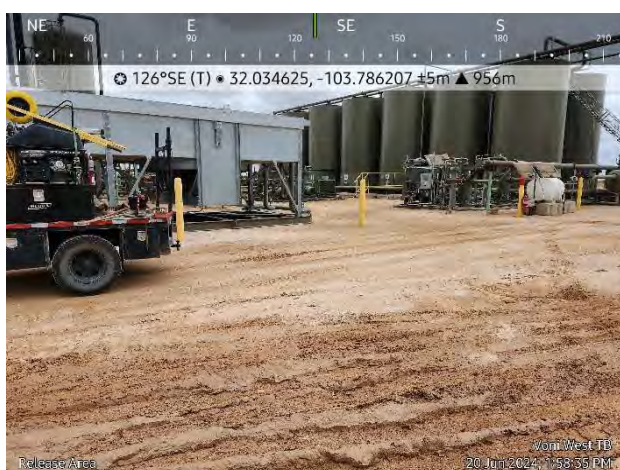


Photograph 2

Date: 06/20/2024

Description: Release Extent

View: Southeast

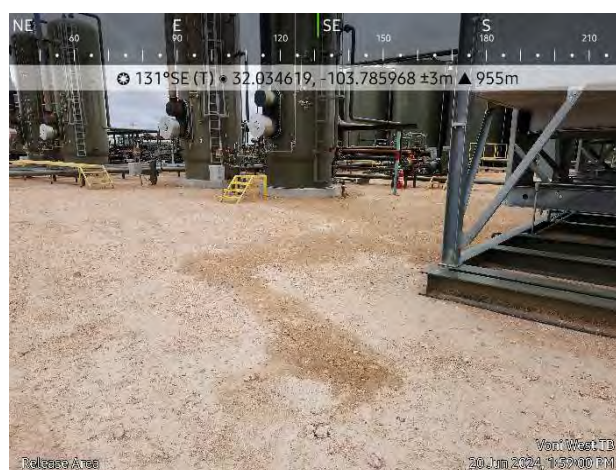


Photograph 3

Date: 06/20/2024

Description: Release Extent

View: Southeast



Photograph 4

Date: 06/20/2024

Description: Release Extent

View: Southeast



Photographic Log

Matador Production Company

Voni West TB

nAPP2417323765



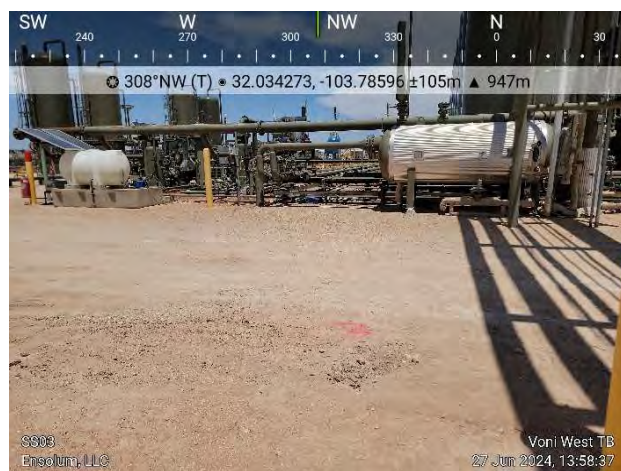
Photograph 5 Date: 06/27/2024
Description: Delineation Sampling
View: South



Photograph 6 Date: 06/27/2024
Description: Delineation Sampling
View: Southeast



Photograph 7 Date: 06/27/2024
Description: Delineation Sampling
View: South



Photograph 8 Date: 06/27/2024
Description: Delineation Sampling
View: Northwest



Photographic Log

Matador Production Company

Voni West TB

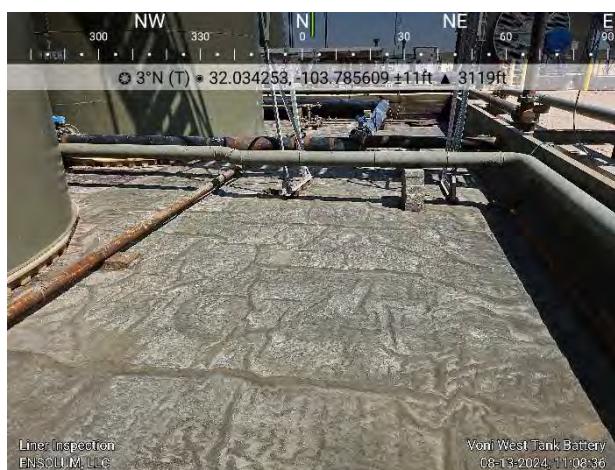
nAPP2417323765



Photograph 9 Date: 08/13/2024
Description: Liner Integrity Inspection
View: West



Photograph 10 Date: 08/13/2024
Description: Liner Integrity Inspection
View: East



Photograph 11 Date: 08/13/2024
Description: Liner Integrity Inspection
View: North



Photograph 12 Date: 08/13/2024
Description: Liner Integrity Inspection
View: East

**Photographic Log**

Matador Production Company

Voni West TB

nAPP2417323765



Photograph 13
Description: Surface Scrape
View: South

Date: 08/26/2024



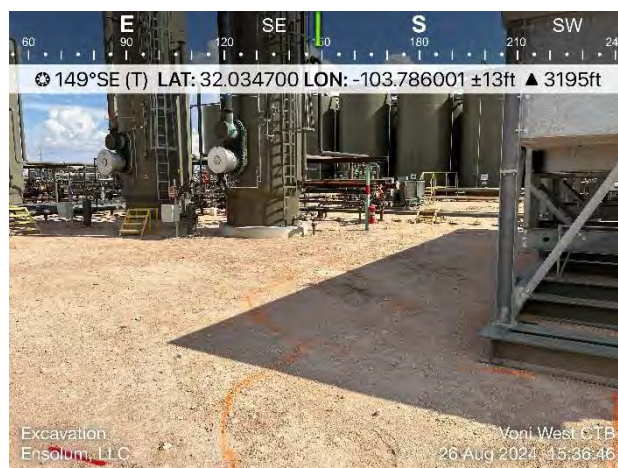
Photograph 14
Description: Surface Scrape
View: Northeast

Date: 08/26/2024



Photograph 15
Description: Surface Scrape
View: North

Date: 08/26/2024



Photograph 16
Description: Surface Scrape
View: Southeast

Date: 08/26/2024



Photographic Log

Matador Production Company

Voni West TB

nAPP2417323765

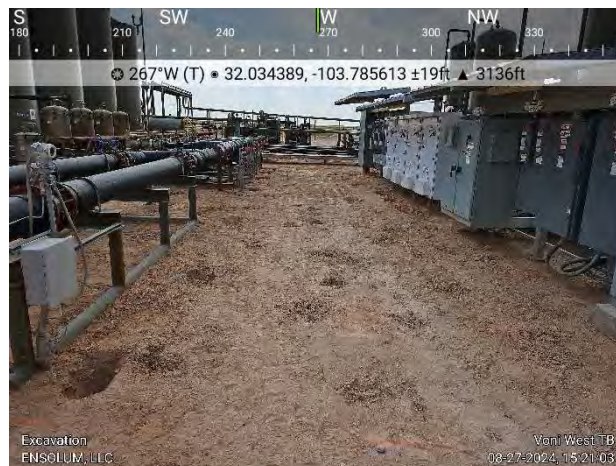


Photograph 17

Date: 08/27/2024

Description: Surface Scrape

View: Southeast



Photograph 18

Date: 08/27/2024

Description: Surface Scrape

View: West



Photograph 19

Date: 08/27/2024

Description: Surface Scrape

View: Northeast



Photograph 20

Date: 08/27/2024

Description: Surface Scrape

View: North



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: Voni West TB

Work Order: E406263

Job Number: 23003-0002

Received: 7/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/8/24

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: 7/8/24

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



Project Name: Voni West TB
Workorder: E406263
Date Received: 7/1/2024 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/1/2024 10:30:00AM, under the Project Name: Voni West TB.

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

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

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

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

Respectfully,

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

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

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Office: 505-421-LABS(5227)
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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

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Sample Summary

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/08/24 10:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E406263-01A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS02-0'	E406263-02A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS03-0'	E406263-03A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS04-0'	E406263-04A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS05-0'	E406263-05A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS06-0'	E406263-06A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS07-0'	E406263-07A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS08-0'	E406263-08A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS09-0'	E406263-09A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SS10-0'	E406263-10A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH01-0'	E406263-11A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH01-4'	E406263-12A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH02-0'	E406263-13A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH02-1'	E406263-14A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH03-0'	E406263-15A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH03-1'	E406263-16A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH04-0'	E406263-17A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH04-1'	E406263-18A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH05-0'	E406263-19A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
BH05-1'	E406263-20A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/8/2024 10:34:57AM

SS01-0'

E406263-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.3 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>	89.2 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	53.6	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
---	--	----------------------------------

SS02-0'

E406263-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	91.8 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	324	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
---	--	----------------------------------

SS03-0'

E406263-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	88.6 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	55.3	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
---	--	----------------------------------

SS04-0'
E406263-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	89.2 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	278	20.0	1	07/01/24	07/02/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS05-0'
E406263-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	89.8 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	179	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS06-0'

E406263-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	88.9 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	429	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS07-0'

E406263-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	88.1 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	374	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS08-0'
E406263-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.1 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
Surrogate: n-Nonane	89.4 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	186	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS09-0'

E406263-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	93.5 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	388	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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SS10-0'

E406263-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	85.6 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	140	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH01-0'

E406263-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	85.7 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	14500	400	20	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH01-4'

E406263-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	94.2 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	107	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH02-0'
E406263-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	92.2 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	3920	40.0	2	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH02-1'

E406263-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	89.0 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	45.2	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH03-0'

E406263-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	43.8	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	5690	100	5	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH03-1'

E406263-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	90.6 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	73.3	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH04-0'
E406263-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	90.6 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	9530	200	10	07/01/24	07/02/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH04-1'

E406263-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	89.0 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	42.4	20.0	1	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH05-0'
E406263-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	84.3 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	10800	200	10	07/01/24	07/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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BH05-1'
E406263-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Benzene	ND	0.0250	1	07/01/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/02/24	
Toluene	ND	0.0250	1	07/01/24	07/02/24	
o-Xylene	ND	0.0250	1	07/01/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		07/01/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2427007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/02/24	
Surrogate: n-Nonane	92.9 %	50-200		07/01/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2427012	
Chloride	49.6	20.0	1	07/01/24	07/02/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/8/2024 10:34:57AM

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 (2427006-BLK1)Prepared: 07/01/24 Analyzed: 07/01/24

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	7.26		8.00		90.8	70-130			

LCS (2427006-BS1)Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.95	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		92.9	70-130			

Matrix Spike (2427006-MS1)Source: E406263-03Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.93	0.0250	5.00	ND	98.6	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

Matrix Spike Dup (2427006-MSD1)Source: E406263-03Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.64	0.0250	5.00	ND	92.8	54-133	6.05	20	
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133	5.73	20	
Toluene	4.70	0.0250	5.00	ND	94.1	61-130	5.86	20	
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131	5.60	20	
p,m-Xylene	9.47	0.0500	10.0	ND	94.7	63-131	5.75	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	5.70	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/8/2024 10:34:57AM

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 (2427006-BLK1) Prepared: 07/01/24 Analyzed: 07/01/24

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

LCS (2427006-BS2) Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2427006-MS2) Source: E406263-03 Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2427006-MSD2) Source: E406263-03 Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.3	70-130	3.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/8/2024 10:34:57AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427007-BLK1)					Prepared: 07/01/24 Analyzed: 07/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

LCS (2427007-BS1)					Prepared: 07/01/24 Analyzed: 07/01/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike (2427007-MS1)					Source: E406263-08		Prepared: 07/01/24 Analyzed: 07/01/24		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike Dup (2427007-MSD1)					Source: E406263-08		Prepared: 07/01/24 Analyzed: 07/01/24		
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	3.21	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/8/2024 10:34:57AM
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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 (2427012-BLK1)				Prepared: 07/01/24 Analyzed: 07/02/24					
Chloride	ND	20.0							
LCS (2427012-BS1)				Prepared: 07/01/24 Analyzed: 07/02/24					
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2427012-MS1)				Source: E406263-08		Prepared: 07/01/24 Analyzed: 07/02/24			
Chloride	443	20.0	250	186	103	80-120			
Matrix Spike Dup (2427012-MSD1)				Source: E406263-08		Prepared: 07/01/24 Analyzed: 07/02/24			
Chloride	440	20.0	250	186	102	80-120	0.749	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/08/24 10:34

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# E406263				Job Number 23003-0002				1D 2D 3D Std			
Project: Voni West TB				Address: 3122 National Parks Hwy												NM CO UT TX			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220												x			
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
12:40	6/27/2024	Soil	1	SS01 - 0'		1						X							
10:42	6/27/2024	Soil	1	SS02 - 0'		2						X							
10:46	6/27/2024	Soil	1	SS03 - 0'		3						X							
12:43	6/27/2024	Soil	1	SS04 - 0'		4						X							
12:44	6/27/2024	Soil	1	SS05 - 0'		5						X							
12:46	6/27/2024	Soil	1	SS06 - 0'		6						X							
13:48	6/27/2024	Soil	1	SS07 - 0'		7						X							
13:23	6/27/2024	Soil	1	SS08 - 0'		8						X							
10:58	6/27/2024	Soil	1	SS09 - 0'		9						X							
10:59	6/27/2024	Soil	1	SS10 - 0'		10						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@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.																			



Chain of Custody

Page 2 of 2

Received by OCD: 9/14/2024 12:00:29 AM

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Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project: Voni West TB				Address: 3122 National Parks Hwy				E 406263		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				
11:55	6/27/2024	Soil	1	BH01 - 0'		11						x									
12:40	6/27/2024	Soil	1	BH01 - 4'		12						x									
11:38	6/27/2024	Soil	1	BH02 - 0'		13						x									
11:45	6/27/2024	Soil	1	BH02 - 1'		14						x									
11:09	6/27/2024	Soil	1	BH03 - 0'		15						x									
11:20	6/27/2024	Soil	1	BH03 - 1'		16						x									
10:47	6/27/2024	Soil	1	BH04 - 0'		17						x									
10:58	6/27/2024	Soil	1	BH04 - 1'		18						x									
10:31	6/27/2024	Soil	1	BH05 - 0'		19						x									
10:36	6/27/2024	Soil	1	BH05 - 1'		20						x									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@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

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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:	07/01/24 10:30	Work Order ID:	E406263
Phone:	(972) 371-5200	Date Logged In:	06/28/24 15:49	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	07/09/24 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

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


Carrier: Courier

Comments/Resolution

Client Instruction

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

Date

envirotech Inc.

Released to Imaging: 11/18/2024 3:10:13 PM

Page 33 of 33

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E408239

Job Number: 23003-0002

Received: 8/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/4/24

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: 9/4/24

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



Project Name: Voni West TB
Workorder: E408239
Date Received: 8/28/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2024 7:00:00AM, under the Project Name: Voni West TB.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/04/24 16:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0'	E408239-01A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS02 - 0'	E408239-02A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS03 - 0'	E408239-03A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS04 - 0'	E408239-04A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS05 - 0'	E408239-05A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS06 - 0'	E408239-06A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS07 - 0'	E408239-07A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS08 - 0'	E408239-08A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS09 - 0'	E408239-09A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS10 - 0'	E408239-10A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS11 - 0'	E408239-11A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS12 - 0'	E408239-12A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS13 - 0'	E408239-13A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS14 - 0'	E408239-14A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS15 - 0'	E408239-15A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS16 - 0'	E408239-16A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS17 - 0'	E408239-17A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS18 - 0'	E408239-18A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS19 - 0'	E408239-19A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS23 - 0'	E408239-20A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS25 - 0'	E408239-21A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.
FS26 - 0'	E408239-22A	Soil	08/26/24	08/28/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS01 - 0'

E408239-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	45.6	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		111 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	4420	100	5	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS02 - 0'

E408239-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	147	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	160	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		115 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	1920	100	5	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS03 - 0'

E408239-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	36.9	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		119 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	1630	40.0	2	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS04 - 0'

E408239-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		116 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	6330	100	5	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS05 - 0'

E408239-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	28.6	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	97.6 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	3210	40.0	2	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS06 - 0'

E408239-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		97.8 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	11400	200	10	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS07 - 0'

E408239-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	100 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	5450	100	5	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS08 - 0'

E408239-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	107 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	107 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	94.3 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	3910	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS09 - 0'

E408239-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		105 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		97.0 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	5280	100	5	08/28/24	08/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS10 - 0'

E408239-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	105 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	37.4	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	94.9 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	3140	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS11 - 0'

E408239-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/28/24	08/30/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	71.4	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane		98.0 %	50-200	08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	4640	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS12 - 0'

E408239-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	95.1 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	4220	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS13 - 0'

E408239-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	107 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	107 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/30/24	
Surrogate: n-Nonane	142 %	50-200		08/28/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	3340	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS14 - 0'

E408239-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	103 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	108 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	103 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	108 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	631	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	210	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane	97.2 %	50-200		08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	2490	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS15 - 0'

E408239-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/30/24	
Toluene	ND	0.0250	1	08/28/24	08/30/24	
o-Xylene	ND	0.0250	1	08/28/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/30/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/28/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/28/24	08/30/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	45.3	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	51.7	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane	101 %	50-200		08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	4200	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS16 - 0'

E408239-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/31/24	
Toluene	ND	0.0250	1	08/28/24	08/31/24	
o-Xylene	ND	0.0250	1	08/28/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	37.9	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane		98.1 %	50-200	08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	2650	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS17 - 0'

E408239-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/31/24	
Toluene	ND	0.0250	1	08/28/24	08/31/24	
o-Xylene	ND	0.0250	1	08/28/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/28/24	08/31/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		08/28/24	08/31/24	
Surrogate: Toluene-d8	106 %	70-130		08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	87.9	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	105	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane	97.2 %	50-200		08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	1740	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS18 - 0'

E408239-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Benzene	ND	0.0250	1	08/28/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/31/24	
Toluene	ND	0.0250	1	08/28/24	08/31/24	
o-Xylene	ND	0.0250	1	08/28/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435078
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435071
Diesel Range Organics (C10-C28)	103	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	91.2	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane		99.6 %	50-200	08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2435079
Chloride	2830	40.0	2	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS19 - 0'

E408239-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/31/24	
Toluene	ND	0.0250	1	08/28/24	08/31/24	
o-Xylene	ND	0.0250	1	08/28/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	25.9	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane		98.7 %	50-200	08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	8590	200	10	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 4:41:04PM

FS23 - 0'

E408239-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Benzene	ND	0.0250	1	08/28/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/31/24	
Toluene	ND	0.0250	1	08/28/24	08/31/24	
o-Xylene	ND	0.0250	1	08/28/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/28/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	08/28/24	08/31/24	
Surrogate: Toluene-d8		106 %	70-130	08/28/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435071	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/28/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/28/24	08/31/24	
Surrogate: n-Nonane		95.6 %	50-200	08/28/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435079	
Chloride	5520	100	5	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS25 - 0'

E408239-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2435075	
Benzene	ND	0.0250	1	08/28/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/29/24	
Toluene	ND	0.0250	1	08/28/24	08/29/24	
o-Xylene	ND	0.0250	1	08/28/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		08/28/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2435075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		08/28/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435086	
Diesel Range Organics (C10-C28)	291	25.0	1	08/28/24	08/29/24	
Oil Range Organics (C28-C36)	114	50.0	1	08/28/24	08/29/24	
Surrogate: n-Nonane	80.1 %	50-200		08/28/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2435072	
Chloride	1310	20.0	1	08/28/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/4/2024 4:41:04PM
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FS26 - 0'

E408239-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2435075	
Benzene	ND	0.0250	1	08/28/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/28/24	08/29/24	
Toluene	ND	0.0250	1	08/28/24	08/29/24	
o-Xylene	ND	0.0250	1	08/28/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/28/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/28/24	08/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		08/28/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2435075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/24	08/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		08/28/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435086	
Diesel Range Organics (C10-C28)	70.9	25.0	1	08/28/24	08/29/24	
Oil Range Organics (C28-C36)	60.9	50.0	1	08/28/24	08/29/24	
Surrogate: n-Nonane	84.2 %	50-200		08/28/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2435072	
Chloride	2500	40.0	2	08/28/24	08/29/24	



Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435078-BLK1)

Prepared: 08/28/24 Analyzed: 08/30/24

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: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS (2435078-BS1)

Prepared: 08/28/24 Analyzed: 08/30/24

Benzene	2.40	0.0250	2.50		96.1	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.4	70-130			
Toluene	2.42	0.0250	2.50		96.7	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.51	0.0500	5.00		90.3	70-130			
Total Xylenes	6.78	0.0250	7.50		90.3	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2435078-MS1)

Source: E408239-10

Prepared: 08/28/24 Analyzed: 08/30/24

Benzene	2.43	0.0250	2.50	ND	97.2	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.2	45-135			
Toluene	2.41	0.0250	2.50	ND	96.5	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.5	43-135			
p,m-Xylene	4.65	0.0500	5.00	ND	93.0	43-135			
Total Xylenes	6.99	0.0250	7.50	ND	93.2	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike Dup (2435078-MSD1)

Source: E408239-10

Prepared: 08/28/24 Analyzed: 08/30/24

Benzene	2.46	0.0250	2.50	ND	98.5	48-131	1.37	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.5	45-135	2.34	27	
Toluene	2.47	0.0250	2.50	ND	98.9	48-130	2.46	24	
o-Xylene	2.40	0.0250	2.50	ND	96.1	43-135	2.74	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135	3.95	27	
Total Xylenes	7.24	0.0250	7.50	ND	96.6	43-135	3.55	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435075-BLK1) Prepared: 08/28/24 Analyzed: 08/28/24

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	7.25		8.00		90.6	70-130			

LCS (2435075-BS1) Prepared: 08/28/24 Analyzed: 08/28/24

Benzene	5.36	0.0250	5.00		107	70-130			
Ethylbenzene	5.14	0.0250	5.00		103	70-130			
Toluene	5.26	0.0250	5.00		105	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			

Matrix Spike (2435075-MS1) Source: E408237-05 Prepared: 08/28/24 Analyzed: 08/28/24

Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133			
Toluene	5.17	0.0250	5.00	ND	103	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			

Matrix Spike Dup (2435075-MSD1) Source: E408237-05 Prepared: 08/28/24 Analyzed: 08/28/24

Benzene	5.21	0.0250	5.00	ND	104	54-133	0.939	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133	1.04	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	1.02	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	0.830	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.18	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.07	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435075-BLK1) Prepared: 08/28/24 Analyzed: 08/28/24

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

LCS (2435075-BS2) Prepared: 08/28/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2435075-MS2) Source: E408237-05 Prepared: 08/28/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike Dup (2435075-MSD2) Source: E408237-05 Prepared: 08/28/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	3.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2435078-BLK1) Prepared: 08/28/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS (2435078-BS2) Prepared: 08/28/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.5	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

Matrix Spike (2435078-MS2) Source: E408239-10 Prepared: 08/28/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2435078-MSD2) Source: E408239-10 Prepared: 08/28/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	2.51	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

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 (2435071-BLK1)					Prepared: 08/28/24 Analyzed: 08/30/24				
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 (2435071-BS1)					Prepared: 08/28/24 Analyzed: 08/30/24				
Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike (2435071-MS1)					Source: E408239-07		Prepared: 08/28/24 Analyzed: 08/30/24		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	58.9		50.0		118	50-200			

Matrix Spike Dup (2435071-MSD1)					Source: E408239-07		Prepared: 08/28/24 Analyzed: 08/30/24		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	0.538	20	
Surrogate: n-Nonane	55.0		50.0		110	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2435086-BLK1)					Prepared: 08/28/24 Analyzed: 08/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			

LCS (2435086-BS1)					Prepared: 08/28/24 Analyzed: 08/29/24				
Diesel Range Organics (C10-C28)	192	25.0	250		76.8	38-132			
Surrogate: n-Nonane	40.6		50.0		81.3	50-200			

Matrix Spike (2435086-MS1)					Source: E408240-02		Prepared: 08/28/24 Analyzed: 08/29/24		
Diesel Range Organics (C10-C28)	193	25.0	250	ND	77.2	38-132			
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			

Matrix Spike Dup (2435086-MSD1)					Source: E408240-02		Prepared: 08/28/24 Analyzed: 08/29/24		
Diesel Range Organics (C10-C28)	190	25.0	250	ND	76.1	38-132	1.41	20	
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2435072-BLK1)					Prepared: 08/28/24 Analyzed: 08/28/24				
Chloride	ND	20.0							
LCS (2435072-BS1)					Prepared: 08/28/24 Analyzed: 08/28/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435072-MS1)					Source: E408236-01		Prepared: 08/28/24 Analyzed: 08/28/24		
Chloride	259	200	250	ND	104	80-120			
Matrix Spike Dup (2435072-MSD1)					Source: E408236-01		Prepared: 08/28/24 Analyzed: 08/28/24		
Chloride	255	200	250	ND	102	80-120	1.61	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/4/2024 4:41:04PM

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 (2435079-BLK1)					Prepared: 08/28/24 Analyzed: 08/28/24				
Chloride	ND	20.0							
LCS (2435079-BS1)					Prepared: 08/28/24 Analyzed: 08/28/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2435079-MS1)					Source: E408239-09		Prepared: 08/28/24 Analyzed: 08/28/24		
Chloride	3480	100	250	5280	NR	80-120			M4
Matrix Spike Dup (2435079-MSD1)					Source: E408239-09		Prepared: 08/28/24 Analyzed: 08/28/24		
Chloride	5000	100	250	5280	NR	80-120	35.9	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/04/24 16:41

- 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

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: Voni West TB				Address: 3122 National Parks Hwy				E408239		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		
14:05	8/26/2024	Soil	1	FS01 - 0'		1						X							
14:07	8/26/2024	Soil	1	FS02 - 0'		2						X							
14:03	8/26/2024	Soil	1	FS03 - 0'		3						X							
14:09	8/26/2024	Soil	1	FS04 - 0'		4						X							
14:14	8/26/2024	Soil	1	FS05 - 0'		5						X							
14:55	8/26/2024	Soil	1	FS06 - 0'		6						X							
14:11	8/26/2024	Soil	1	FS07 - 0'		7						X							
14:45	8/26/2024	Soil	1	FS08 - 0'		8						X							
14:53	8/26/2024	Soil	1	FS09 - 0'		9						X							
14:01	8/26/2024	Soil	1	FS10 - 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: Israel Estrella and Bowan Simmons																			
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.																			



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State																							
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# E 408229				Job Number 23003-0002				<table border="1"> <tr> <td>1D</td> <td>2D</td> <td>3D</td> <td>Std</td> </tr> <tr> <td></td> <td></td> <td></td> <td>X</td> </tr> </table>				1D	2D	3D	Std				X	<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </table>				NM	CO	UT	TX	X			
1D	2D	3D	Std																																				
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Project: Voni West TB				Address: 3122 National Parks Hwy																																			
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13:29	8/26/2024	Soil	1	FS11 - 0'			11						X																										
14:47	8/26/2024	Soil	1	FS12 - 0'			12						X																										
14:49	8/26/2024	Soil	1	FS13 - 0'			13						X																										
13:25	8/26/2024	Soil	1	FS14 - 0'			14						X																										
13:21	8/26/2024	Soil	1	FS15 - 0'			15						X																										
13:28	8/26/2024	Soil	1	FS16 - 0'			16						X																										
13:26	8/26/2024	Soil	1	FS17 - 0'			17						X																										
13:23	8/26/2024	Soil	1	FS18 - 0'			18						X																										
14:57	8/26/2024	Soil	1	FS19 - 0'			19						X																										
14:59	8/26/2024	Soil	1	FS23 - 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: Israel Estrella and Bowan Simmons																																							
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Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																																
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[illegible]

Envirotech Analytical Laboratory

Printed: 8/28/2024 9:23:32AM

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:	08/28/24 06:00	Work Order ID:	E408239
Phone:	(972) 371-5200	Date Logged In:	08/27/24 16:08	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/04/24 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

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

Carrier: CourierComments/ResolutionSample 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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

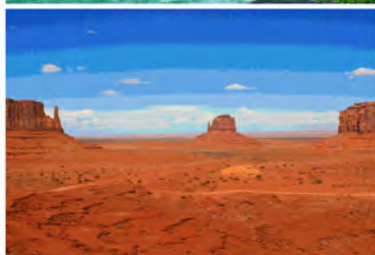
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E408253

Job Number: 23003-0002

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/5/24

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: 9/5/24

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



Project Name: Voni West TB
Workorder: E408253
Date Received: 8/29/2024 8:00:24AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: Voni West TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/05/24 14:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS20 - 0'	E408253-01A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS21 - 0'	E408253-02A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS22 - 0'	E408253-03A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS24 - 0'	E408253-04A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS27 - 0'	E408253-05A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS28 - 0'	E408253-06A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS29 - 0'	E408253-07A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS30 - 0'	E408253-08A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS31 - 0'	E408253-09A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS32 - 0'	E408253-10A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS33 - 0'	E408253-11A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS34 - 0'	E408253-12A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS35 - 0'	E408253-13A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS36 - 0'	E408253-14A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
FS37 - 0'	E408253-15A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS20 - 0'

E408253-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/31/24	
Toluene	0.0260	0.0250	1	08/29/24	08/31/24	
o-Xylene	0.0785	0.0250	1	08/29/24	08/31/24	
p,m-Xylene	0.260	0.0500	1	08/29/24	08/31/24	
Total Xylenes	0.338	0.0250	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/29/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	40.1	20.0	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/29/24	08/31/24	
Surrogate: Toluene-d8		107 %	70-130	08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	122	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane		81.0 %	50-200	08/29/24	08/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	6850	100	5	08/29/24	08/29/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS21 - 0'

E408253-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/31/24	
Toluene	ND	0.0250	1	08/29/24	08/31/24	
o-Xylene	ND	0.0250	1	08/29/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene	101 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8	105 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene	101 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8	105 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	40.5	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	80.5 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	8390	200	10	08/29/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS22 - 0'

E408253-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Benzene	ND	0.0250	1	08/29/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/31/24	
Toluene	ND	0.0250	1	08/29/24	08/31/24	
o-Xylene	ND	0.0250	1	08/29/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	08/29/24	08/31/24	
Surrogate: Toluene-d8		103 %	70-130	08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	08/29/24	08/31/24	
Surrogate: Toluene-d8		103 %	70-130	08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435091
Diesel Range Organics (C10-C28)	232	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	91.1	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane		84.9 %	50-200	08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2435101
Chloride	10300	200	10	08/29/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS24 - 0'

E408253-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	08/31/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/31/24	
Toluene	ND	0.0250	1	08/29/24	08/31/24	
o-Xylene	ND	0.0250	1	08/29/24	08/31/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/31/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8	104 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/31/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/29/24	08/31/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/29/24	08/31/24	
Surrogate: Toluene-d8	104 %	70-130		08/29/24	08/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	93.9 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	7950	200	10	08/29/24	08/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS27 - 0'

E408253-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	39.5	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	83.3 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	11600	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 2:57:46PM

FS28 - 0'

E408253-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435091
Diesel Range Organics (C10-C28)	191	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	61.6	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	79.0 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2435101
Chloride	11500	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS29 - 0'

E408253-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	275	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	119	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	87.3 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	10600	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS30 - 0'

E408253-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	35.6	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	88.8 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	8880	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS31 - 0'

E408253-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	88.5 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	88.5 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	86.9 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	6130	100	5	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS32 - 0'

E408253-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	93.1 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	91.4 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	8800	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS33 - 0'

E408253-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	92.3 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	92.3 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	93.5 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	8480	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS34 - 0'

E408253-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/30/24	
Toluene	ND	0.0250	1	08/29/24	08/30/24	
o-Xylene	ND	0.0250	1	08/29/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/30/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/29/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		08/29/24	08/30/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	70.2 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	11000	200	10	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS35 - 0'

E408253-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435091
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	91.9 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2435101
Chloride	4250	100	5	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Voni West TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 2:57:46PM

FS36 - 0'

E408253-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435099
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	92.9 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	103 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435091
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	85.8 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2435101
Chloride	5750	100	5	08/29/24	08/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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FS37 - 0'

E408253-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Benzene	ND	0.0250	1	08/29/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/29/24	09/04/24	
Toluene	ND	0.0250	1	08/29/24	09/04/24	
o-Xylene	ND	0.0250	1	08/29/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/29/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	09/04/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		08/29/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		08/29/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/29/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435091	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/31/24	
Surrogate: n-Nonane	88.1 %	50-200		08/29/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2435101	
Chloride	8000	200	10	08/29/24	08/30/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/5/2024 2:57:46PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435099-BLK1) Prepared: 08/29/24 Analyzed: 08/30/24

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: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2435099-BS1) Prepared: 08/29/24 Analyzed: 08/30/24

Benzene	2.18	0.0250	2.50		87.2	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.6	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.49	0.0250	2.50		99.5	70-130			
p,m-Xylene	4.94	0.0500	5.00		98.8	70-130			
Total Xylenes	7.43	0.0250	7.50		99.0	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2435099-MS1) Source: E408253-12 Prepared: 08/29/24 Analyzed: 08/30/24

Benzene	2.23	0.0250	2.50	ND	89.1	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135			
Toluene	2.41	0.0250	2.50	ND	96.2	48-130			
o-Xylene	2.50	0.0250	2.50	ND	100	43-135			
p,m-Xylene	4.96	0.0500	5.00	ND	99.2	43-135			
Total Xylenes	7.46	0.0250	7.50	ND	99.5	43-135			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2435099-MSD1) Source: E408253-12 Prepared: 08/29/24 Analyzed: 08/30/24

Benzene	2.15	0.0250	2.50	ND	86.1	48-131	3.45	23	
Ethylbenzene	2.25	0.0250	2.50	ND	90.1	45-135	0.994	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	1.49	24	
o-Xylene	2.45	0.0250	2.50	ND	97.8	43-135	2.30	27	
p,m-Xylene	4.86	0.0500	5.00	ND	97.1	43-135	2.12	27	
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135	2.18	27	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/5/2024 2:57:46PM

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 (2435099-BLK1) Prepared: 08/29/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2435099-BS2) Prepared: 08/29/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	38.8	20.0	50.0		77.6	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2435099-MS2) Source: E408253-12 Prepared: 08/29/24 Analyzed: 08/31/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0	ND	79.5	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2435099-MSD2) Source: E408253-12 Prepared: 08/29/24 Analyzed: 08/31/24

Gasoline Range Organics (C6-C10)	38.1	20.0	50.0	ND	76.1	70-130	4.35	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/5/2024 2:57:46PM

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 (2435091-BLK1) Prepared: 08/29/24 Analyzed: 08/31/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.3		50.0		84.7	50-200			

LCS (2435091-BS1) Prepared: 08/29/24 Analyzed: 08/31/24

Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	45.6		50.0		91.2	50-200			

Matrix Spike (2435091-MS1) Source: E408249-02 Prepared: 08/29/24 Analyzed: 08/31/24

Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.3	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike Dup (2435091-MSD1) Source: E408249-02 Prepared: 08/29/24 Analyzed: 08/31/24

Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132	6.04	20	
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/5/2024 2:57:46PM
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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 (2435101-BLK1)					Prepared: 08/29/24 Analyzed: 08/29/24				
Chloride	ND	20.0							
LCS (2435101-BS1)					Prepared: 08/29/24 Analyzed: 08/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2435101-MS1)					Source: E408253-03		Prepared: 08/29/24 Analyzed: 08/29/24		
Chloride	10700	200	250	10300	154	80-120			M4
Matrix Spike Dup (2435101-MSD1)					Source: E408253-03		Prepared: 08/29/24 Analyzed: 08/29/24		
Chloride	10200	200	250	10300	NR	80-120	4.54	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/05/24 14:57

- 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

Page 1 of 2

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: Voni West TB				Address: 3122 National Parks Hwy		E 408253	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
14:09	8/27/2024	Soil	1	FS20 - 0'		1						X					
11:41	8/27/2024	Soil	1	FS21 - 0'		2						X					
14:04	8/27/2024	Soil	1	FS22 - 0'		3						X					
11:39	8/27/2024	Soil	1	FS24 - 0'		4						X					
10:20	8/27/2024	Soil	1	FS27 - 0'		5						X					
14:15	8/27/2024	Soil	1	FS28 - 0'		6						X					
11:34	8/27/2024	Soil	1	FS29 - 0'		7						X					
11:50	8/27/2024	Soil	1	FS30 - 0'		8						X					
14:02	8/27/2024	Soil	1	FS31 - 0'		9						X					
13:34	8/27/2024	Soil	1	FS32 - 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 and Bowan Simmons																	
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 / 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

Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E 408253		Job Number 23003-0002		1D 2D 3D Std X				NM CO UT TX X					
Project: Voni West TB				Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055											
Project Manager: Ashley Giovengo				Email: agiovengo@ensolum.com		Miscellaneous:													
Address: 3122 National Parks Hwy																			
City, State, Zip: Carlsbad NM, 88220																			
Phone: 575-988-0055																			
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/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		
10:29	8/27/2024	Soil	1	FS33 - 0'		11						X							
10:30	8/27/2024	Soil	1	FS34 - 0'		12						X							
10:22	8/27/2024	Soil	1	FS35 - 0'		13						X							
10:26	8/27/2024	Soil	1	FS36 - 0'		14						X							
10:24	8/27/2024	Soil	1	FS37 - 0'		15						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 and Bowan Simmons																			
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 / 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

Envirotech Analytical Laboratory

Printed: 8/29/2024 8:44:34AM

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:	08/29/24 08:00	Work Order ID:	E408253
Phone:	(972) 371-5200	Date Logged In:	08/28/24 16:39	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/05/24 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

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

Carrier: CourierComments/ResolutionSample 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

Email Correspondence

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

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

QUESTIONS

Action 375554

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375554
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417323765
Incident Name	NAPP2417323765 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	06/20/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	15,039
What is the estimated number of samples that will be gathered	71
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
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	32.03498, -103.78557

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
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CONDITIONS

Action 375554

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375554
	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.	8/20/2024

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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 375571

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375571
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417323765
Incident Name	NAPP2417323765 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	06/20/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	15,039
What is the estimated number of samples that will be gathered	71
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
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	32.03498, -103.78557

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

CONDITIONS

Action 375571

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375571
	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.	8/20/2024

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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 375576

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375576
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417323765
Incident Name	NAPP2417323765 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	06/20/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	15,039
What is the estimated number of samples that will be gathered	71
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
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	32.03498, -103.78557

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 375576

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375576
	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.	8/20/2024

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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 375581

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375581
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417323765
Incident Name	NAPP2417323765 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	06/20/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	15,039
What is the estimated number of samples that will be gathered	71
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
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	32.03498, -103.78557

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CONDITIONS

Action 375581

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 375581
	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.	8/20/2024

From: [Jason Touchet](#)
To: [Ashley Giovengo](#)
Cc: [Arsenio Jones](#)
Subject: RE: Please Submit - 48-hour Liner Integrity Inspection Notification - Voni West TB - Incident Number nAPP2417323765
Date: Wednesday, August 7, 2024 3:32:41 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

****EXTERNAL EMAIL****

To whom it may concern (c/o Jason Touchet for MATADOR PRODUCTION COMPANY),
The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2417323765.

The liner inspection is expected to take place:

When: 08/13/2024 @ 09:00

Where: E-21-26S-31E 0 FNL 0 FEL (32.03444,-103.78578)

Additional Information: Tank Containment

Additional Instructions: 32.03498, -103.78557

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of 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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505

Thanks,
Jason Touchet

EHS Field Technician
Matador Resources Company
Cell: 337-652-3463
Email: jason.touchet@matadorresources.com

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, August 7, 2024 3:17 PM
To: Jason Touchet <jason.touchet@matadorresources.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: RE: Please Submit - 48-hour Liner Integrity Inspection Notification - Voni West TB - Incident Number nAPP2417323765
Importance: High

****EXTERNAL EMAIL****

JT,

Please submit a 48-hour Liner Inspection Notification for the Voni West TB. Please see the details below:

When: 08/13/2024 @ 09:30 am MST
Incident Number: nAPP2417323765
Where: C-21-26S-31E (32.03498, -103.78557)
Sq. Footage of Liner: 8,689 sq. ft.

Additional Information: Tank Containment

Additional Instructions: 32.03498, -103.78557

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

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“Your authenticity is your superpower.” – Unknown

From: Ashley Giovengo
Sent: Wednesday, August 7, 2024 2:54 PM
To: Jason Touchet <jason.touchet@matadorresources.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: Please Submit - 48-hour Liner Integrity Inspection Notification - Voni West TB - Incident Number nAPP2406051763
Importance: High

JT,

Please submit a 48-hour Liner Inspection Notification for the Voni West TB. Please see the details below:

When: 08/13/2024 @ 09:30 am MST
Incident Number: nAPP2406051763
Where: C-21-26S-31E (32.03498, -103.78557)
Sq. Footage of Liner: 8,689 sq. ft.

Additional Information: Tank Containment

Additional Instructions: 32.03498, -103.78557

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [jason.touchet@matadorresources.com](#); [clinton.talley@matadorresources.com](#); [arsenio.jones@matadorresources.com](#); [Bratcher, Michael, EMNRD](#)
Subject: Re: [EXTERNAL] Confirmation Sampling Variance Request - Matador - Voni West TB - Incident Number nAPP2417323765
Date: Wednesday, August 7, 2024 1:36:06 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-m2hcv4d5.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Ashley,

Thank you for the inquiry. Your request to increase the sampling area not to exceed 400 square feet from the excavation floor and not to exceed 200 square feet from the excavation sidewalls for each five (5) point composite per 19.15.29.12D (1b) NMAC is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have a safe and productive day!

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, August 7, 2024 1:05 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Confirmation Sampling Variance Request - Matador - Voni West TB - Incident Number nAPP2417323765

Hi Nelson,

This one is yours so here you go!

Shelly

From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Wednesday, August 7, 2024 11:57 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Cc: Jason Touchet <jason.touchet@matadorresources.com>; clinton.talley@matadorresources.com; Arsenio Jones <arsenio.jones@matadorresources.com>

Subject: [EXTERNAL] Confirmation Sampling Variance Request - Matador - Voni West TB - Incident Number nAPP2417323765

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Voni West TB (Site) (Incident Number nAPP2417323765). On June 06, 2024, a 2" nipple going into the Odessa H pump sheared off which resulted in the release of approximately 62 barrels (bbls) of produced water; 15 bbls were recovered from the caliche pad. The point of release occurred in the line of H-pumps on the north side of the lined secondary containment. Produced water shot straight up and the overspray from the failure impacted an area approximately 16,041 square feet (sq. ft.) in size on-pad and impacted the lined secondary containment. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on June 21, 2024, via web portal and to the Bureau of Land Management (BLM) on June 21, 2024. A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well C-4769 POD1 with a depth to groundwater measurement of 101 ft below ground surface (bgs); the well is 0.36 miles from the release extent and the date of the last recorded measurement was on September 13, 2023. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a freshwater emergent wetland located approximately 0.6 miles southeast of the Site. The Site is not underlain by unstable geology (low potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the highest Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX 1,000 mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/ORO and 20,000 mg/kg chloride.

Lateral and vertical delineation sampling has been completed in accordance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results indicated that all constituents of concern (COC's) were in compliance with the Site Closure Criteria for lateral delineation soil samples (SS01 through SS10) collected at ground surface and for vertical delineation soil samples collected from boreholes (BH01 through BH05) at ground surface (see Table 1). Matador would like to request a confirmation sampling variance for excavation floor samples collected every 400 sq. ft. from the

floor of the excavation and every 200 sq. ft. from the sidewalls of the excavation where applicable. Matador intends to complete a surface scrape of the on-pad spill area, collected final confirmation samples and complete a liner integrity inspection of the lined secondary containment impacted by the release. Due to the to the shallow nature of the impacted area, the fact that the entire release remained on-pad and a regional depth to groundwater greater than 101 ft bgs, Matador believes this *variance request* will provide equal or better protection of public health, the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2417323765).

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 383463

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417323765
Incident Name	NAPP2417323765 VONI WEST 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	Voni West TB
Date Release Discovered	06/20/2024
Surface Owner	Federal

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 Other (Specify) Produced Water Released: 62 BBL Recovered: 15 BBL Lost: 47 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)	Nipple going into Odessa H Pump sheared off and failed causing the release.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 2

Action 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Actions have been taken.

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: 09/13/2024
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	14500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	841
GRO+DRO (EPA SW-846 Method 8015M)	631
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	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	08/27/2024
On what date will (or was) the remediation complete(d)	08/27/2024
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	15039
What is the estimated volume (in cubic yards) that will be remediated	30

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 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360 Hobbs NM
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 09/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	375581
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
What was the (estimated) number of samples that were to be gathered	71
What was the sampling surface area in square feet	15039

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	15039
What was the total volume (cubic yards) remediated	30
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)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 09/13/2024
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QUESTIONS, Page 7

Action 383463

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 383463

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 383463
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	11/18/2024