



October 20, 2023

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
Wool Head Pad D
Incident Number nAPP2325965529
Lea County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company, Inc. (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Wool Head Pad D (Site) in Unit L, Section 20, Township 21 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address waste-containing soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, Matador is requesting closure for incident Number nAPP2325965529.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.45861°, -103.60081°) and is associated with oil and gas exploration and production operations on State Land Trust managed by the New Mexico State Land Office (NMSLO).

On September 16, 2023, a weld on a poly water transfer line failed, which resulted in the release of 639 barrels (bbls) of produced water into an excavated area on the north side of the caliche pad. The release occurred in an off-pad area where major pipeline construction was ongoing and where two perpendicular pipeline excavations had been previously excavated to depths of 6 feet and 9 feet below ground surface (bgs). The spill impacted an area approximately 1,963 square feet in size and 360 barrels of fluid were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 19, 2023, and the release was assigned Incident Number nAPP2325965529. The spill was reported to NMSLO via email on September 21, 2023.

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, Section 12 (19.15.29.12) 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 (Appendix A). Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with available depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 01882 POD1, located approximately 0.45 miles southwest of the Site. The groundwater well has a reported depth to groundwater greater than 106 feet bgs and a total depth of 106 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 shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced water well records are included in Attachment B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 5,016 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 19, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations.

Since the release remained within an NMSLO-approved pipeline right-of-way (ROW) excavation, an assessment of cultural properties had already been completed prior to the construction of the ROW and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Four delineation soil samples, (SS01 through SS04) were collected to assess the lateral extent of the release at ground surface. One pothole, (PH01) was advanced to a depth of 16 feet bgs with a track hoe to verify the vertical extent of the release. Three additional delineation soil samples (SS05 through SS07) were collected on October 4, 2023, to further define the lateral extent of the spill area at ground surface. All delineation soil samples were field screened for chloride using either Hach[®] chloride QuanTab[®] test strips or Mohr Method titration. The release extent and delineation 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 pothole PH01 were logged on a lithologic soil sampling log, which is 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. The soil samples were transported

under strict chain-of-custody procedures to Envirotech, Inc (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants 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.

Laboratory analytical results for delineation soil samples (SS01 through SS07) and for pothole soil samples (PH01) indicated all COC concentrations were compliant with the strictest Closure Criteria per NMOCD Table I, and successfully defined the lateral and vertical release extent.

EXCAVATION SOIL SAMPLING ACTIVITIES

Upon completion of delineation soil sampling activities, waste-containing soil was excavated from the release area as indicated by visible staining, laboratory analytical results for delineation soil samples, and field screening results. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, waste-containing soils were field screened for chloride the using MOHR Method titration. The previously existing pipeline excavations were advanced to the maximum extent practicable (MEP) and the release extent varies in depth from 7 feet bgs to 20 feet bgs. Photographic documentation of excavation activities is included in Appendix D.

Following removal of waste-containing soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite confirmation soil samples (FS01 through FS16) were collected from the floor of the excavation at depths ranging from 7 feet to 20 feet bgs. Composite confirmation sidewall soil samples SW01 through SW20 were collected from the sidewalls of the excavation at depths ranging from ground surface to 20 feet bgs. The composite confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

The excavation area measured approximately 4,252 square feet. A total of approximately 1,820 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. The release remained within the current excavation of the pipeline ROW for operations related to oil and gas production transport. As such, the release area is not expected to be reclaimed separate from the planned reclamation of the ROW following the installation and final backfill of the open ROW excavation. As such, the Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the pipeline ROW.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation floor samples FS01 through FS16 and confirmation sidewall samples SW01 through SW20 indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. Laboratory analytical results are summarized in Tables 1 through 3 and laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 16, 2023, release of produced water. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with reclamation requirement. Based on the confirmation soil sample

Wool Head Pad D



analytical results, no further remediation is required. Matador will backfill the excavation with material purchased locally and backfill to match pre-existing pipeline ROW excavation depths.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 106 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2325965529.

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 Engineer

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

Daniel R. Moir, PG
Senior Managing Geologist

cc:

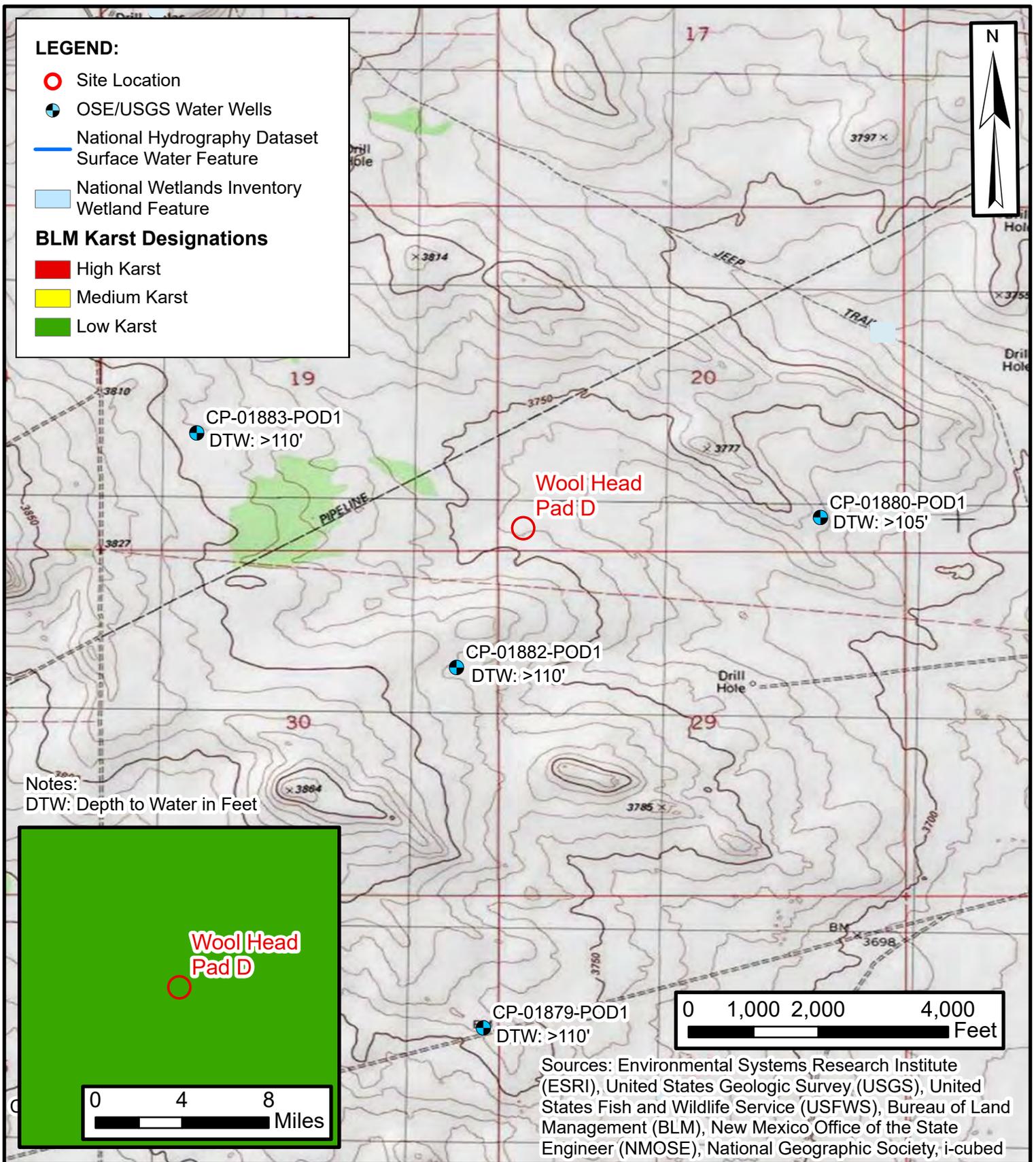
Clinton Tally, Matador Production Company
NMSLO

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Tables Soil Sample Analytical Results
- Appendix A Form C-141
- Appendix B Referenced Well Records
- Appendix C Photographic Log
- Appendix D Lithologic Soil Sampling Logs
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Notifications



FIGURES



Sources: Environmental Systems Research Institute (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), Bureau of Land Management (BLM), New Mexico Office of the State Engineer (NMOSE), National Geographic Society, i-cubed

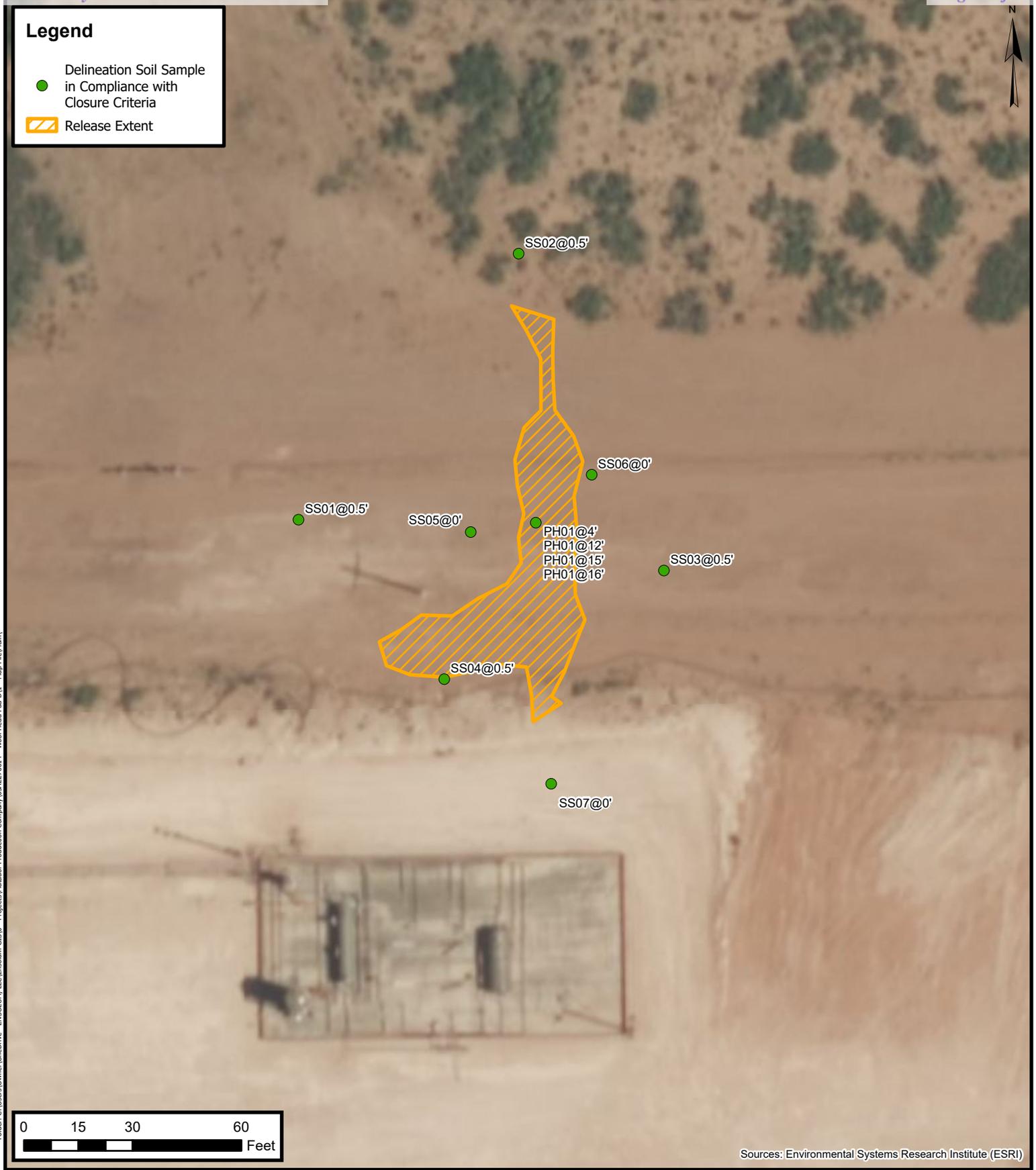


Site Receptor Map
 Wool Head Pad D
 Matador Production Company
 Incident Number: nAPP2325965529
 Unit L, Sec 20, T21S R33E
 Lea County, New Mexico

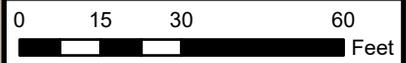
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Release Extent



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\Matador Production Company\03A2270014 - Wool Head Pad D\1 - Map File\Warm



Sources: Environmental Systems Research Institute (ESRI)



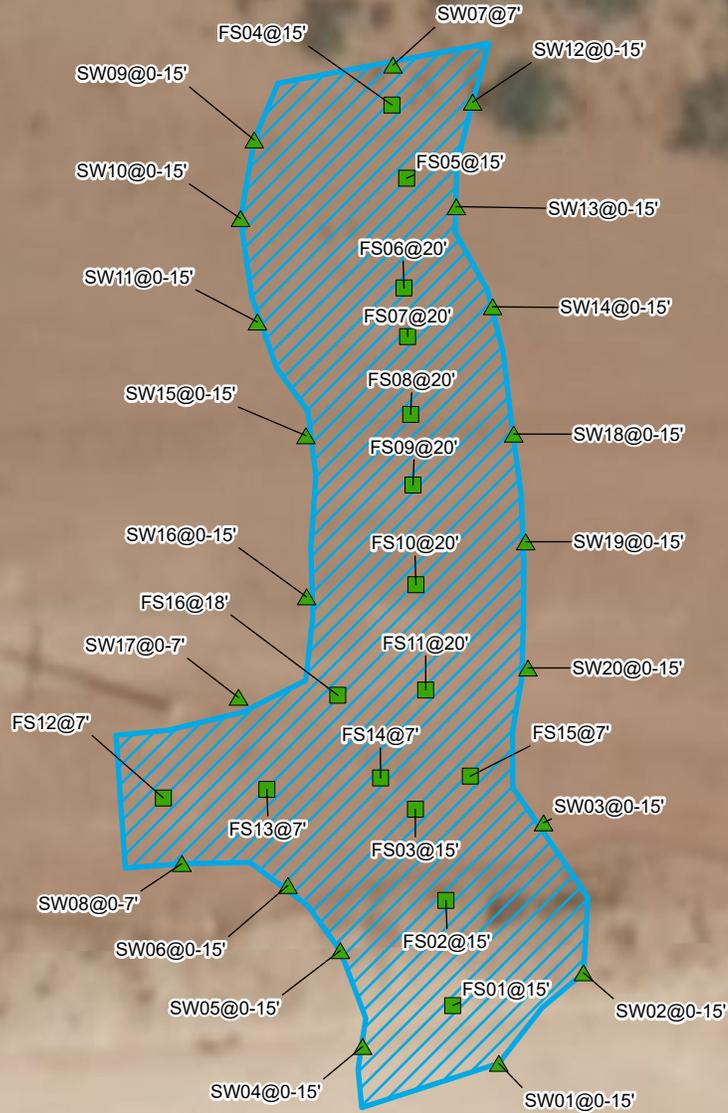
Delineation Soil Sample Location

Matador Production Company
 Wool Head Pad D
 Incident Number: nAPP2325965529
 Unit L, Section 20, T 21S, R 33E
 Lea County, New Mexico

FIGURE
2

Legend

- Confirmation Floor Sample in Compliance with NMOCD Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with NMOCD Closure Criteria
- ▨ Excavation Extent



Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

Matador Production Company
 Wool Head Pad D
 Incident Number: nAPP2325965529
 Unit L, Section 20, T 21S, R 33E
 Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Wool Head Pad D
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	28.6
SS05	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	58.4
SS06	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS07	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	49.0
PH01	9/19/2023	4	0.385	2.541	26.7	<25.0	<50.0	26.7	26.7	13,700
PH01	9/19/2023	12	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	273
PH01	9/19/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	284
PH01	9/19/2023	16	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	290

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
 Wool Head Pad D
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS01	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	416
FS02	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	477
FS03	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	319
FS04	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	442
FS05	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	394
FS06	10/6/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	416
FS07	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,700
FS08	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	265
FS09	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	846
FS10	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS11	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	216
FS12	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,540
FS13	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,410
FS14	10/5/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,530
FS15	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,530
FS16	10/6/2023	18	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	447

Notes:

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Wool Head Pad D
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Sidewall Soil Samples										
SW01	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	262
SW02	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	295
SW05	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	50
SW06	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	28.5
SW07	10/4/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	20.6
SW08	10/5/2023	0-7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	253
SW09	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW10	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	58.4
SW11	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW12	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW13	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW14	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	459
SW15	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW16	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW17	10/5/2023	0-7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW18	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW19	10/6/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW20	10/6/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # (assigned by OCD) nAPP2325965529
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.45861 Longitude -103.60081
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wool Head Pad D	Site Type Oil Well
Date Release Discovered 09/16/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	20	21S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 639 bbls	Volume Recovered (bbls) 360 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment failure on pipeline poly weld. The spill impacted an area approximately 1,963 square ft off-pad.

$$BBL\ Estimate = \left(\text{Saturated Soil Volume } (ft^3) / 4.21 \left(\frac{ft^3}{bbl} \text{ equivalent} \right) \right) \times \text{Estimated Soil Porosity } (\%) + \text{Recovered Fluids } (bbl)$$

$$((1,963 \times 1.33) / 4.21) \times 0.45 + 360.0 = 639 \text{ bbls}$$

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
---------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 Immediate notice was given to NMOCD on 09/16/2023 via website.

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Clint Talley Title: EHS Supervisor
 Signature: *Clint Talley* Date: 09/18/2023
 email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only
 Received by: Scott Rodgers Date: 09/19/2023

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	>106 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 09/18/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 10/23/2023

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 10/23/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 10/23/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Nelson Velez*

Date: 02/06/2024

Printed Name: Nelson Velez

Title: Environmental Specialist – Adv



APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1882	
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700	
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX
					ZIP 77077	
WELL LOCATION (FROM GPS)		DEGREES LATITUDE 32	MINUTES 27	SECONDS 7.70	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE 103	36	17.7	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE NE Sec. 30 T21S R33E						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/06/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 106	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	106	±6.5	Boring- HSA	-	-	-	-

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

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	CP-1882	POD NO.	1	TRN NO.	1099678
LOCATION	21S. 33E. 30.242		WELL TAG ID NO.		PAGE 1 OF 2



APPENDIX C
Photographic Log



Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2325965529



Photograph 1 Date: 9/16/23
Description: Spill area
View: South



Photograph 2 Date: 9/19/23
Description: Delineation sampling
View: North



Photograph 3 Date: 9/19/23
Description: Delineation sampling
View: South



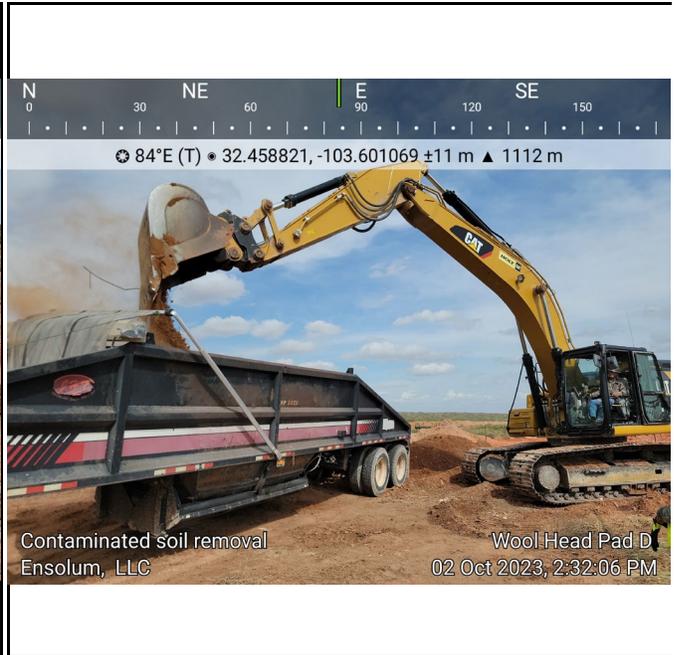
Photograph 4 Date: 9/19/23
Description: Delineation sampling PH01
View: East



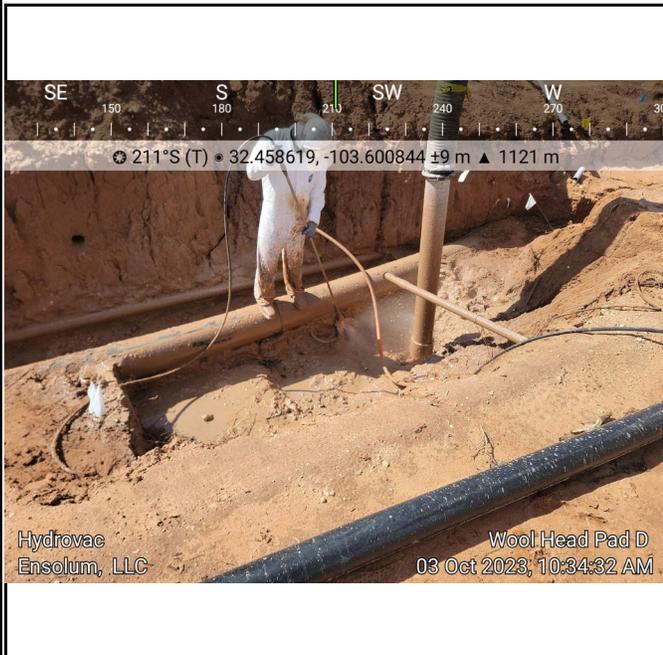
Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2325965529



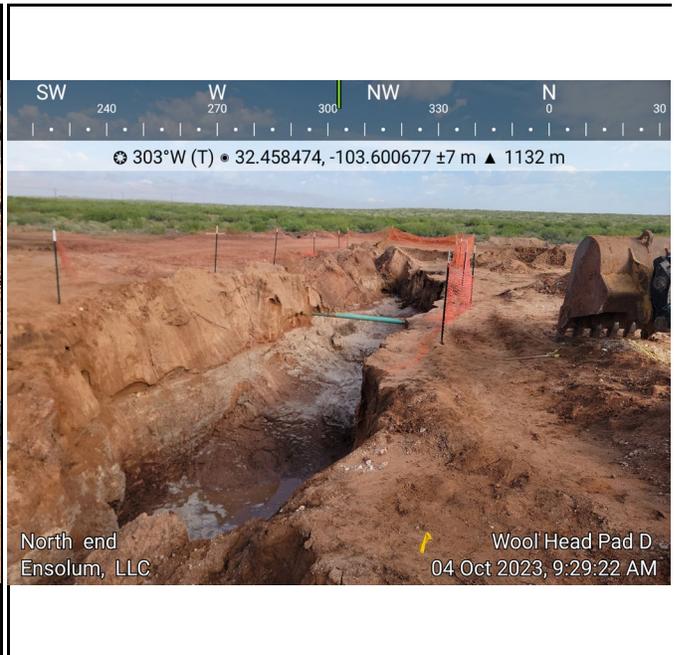
Photograph 5
Date: 10/2/23
Description: Excavation
View: North



Photograph 6
Date: 10/2/23
Description: Waste-containing soil removed
View: East



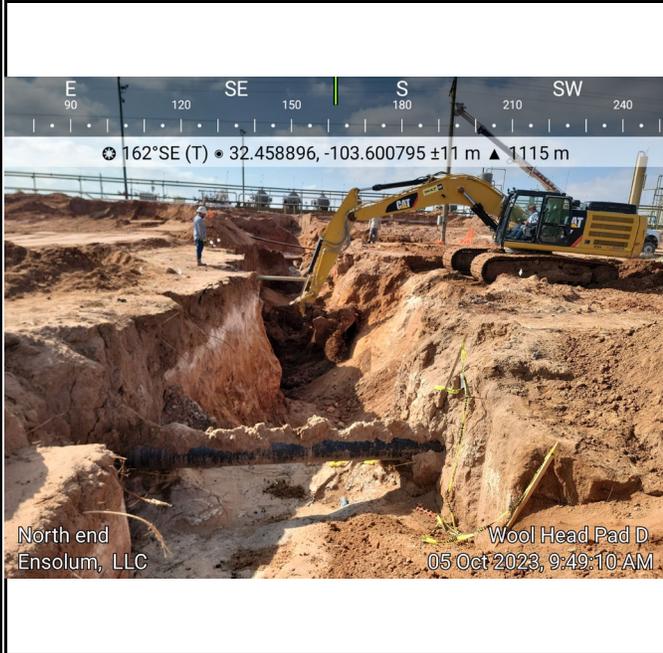
Photograph 7
Date: 10/3/23
Description: Hydrovac around pipelines
View: Southwest



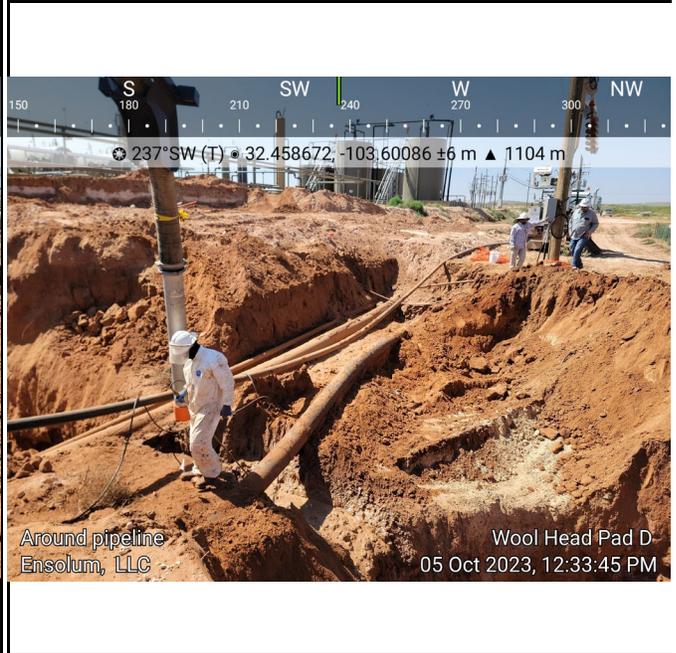
Photograph 8
Date: 10/4/23
Description: Excavated area
View: North



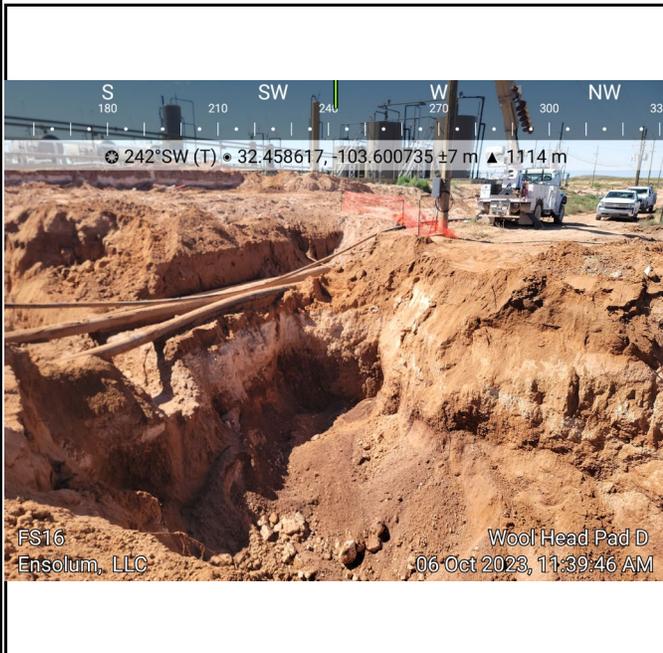
Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2325965529



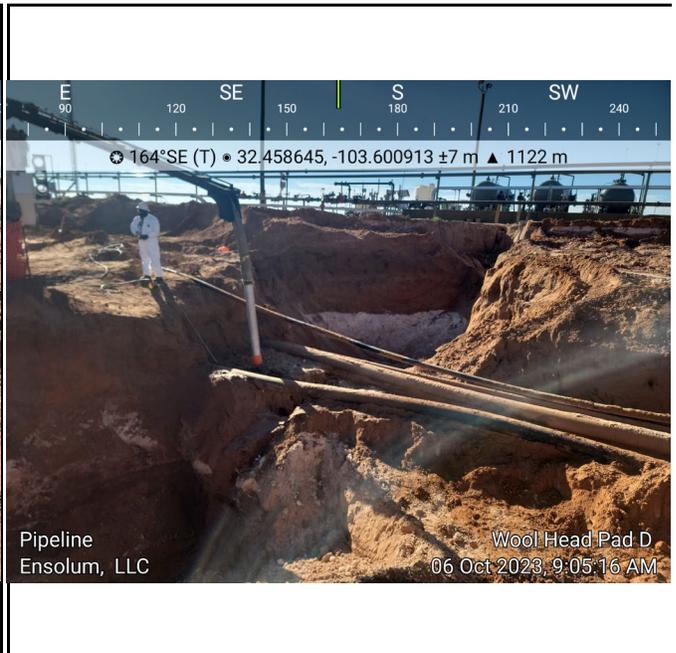
Photograph 9 Date: 10/5/23
Description: Excavated Area
View: South



Photograph 10 Date: 10/5/23
Description: Excavation around pipelines
View: West



Photograph 11 Date: 10/6/23
Description: Excavated area
View: West



Photograph 12 Date: 10/6/23
Description: Excavated area
View: South



APPENDIX D

Lithologic Soil Sampling Logs

				Sample Name: PH01		Date: 09/19/2023		
				Site Name: Wool Head Pad D				
				Incident Number: nAPP2325965529				
				Job Number: 03A2270014				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: Chad Hamilton		Method: Trackhoe		
Coordinates: 32.45861, -103.60081				Hole Diameter: 4'		Total Depth: 16'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	19,292	NA		PH01	4	4	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, dry, cohesive, massive, uniform, no staining, slight odor
W	34,529	NA		PH01	5	5	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, wet, cohesive, massive, uniform, no staining, strong odor
W	12,129	NA		PH01	6	6	SP-SC	SAA
W	23,856	NA		PH01	7	7	SP-SC	SAA
M	21,397	NA		PH01	8	8	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, moist, cohesive, massive, uniform, no staining, slight odor
M	17,466	NA		PH01	9	9	SP-SC	SAA
M	23,856	NA		PH01	10	10	SP-SC	SAA
M	1,982	NA		PH01	11	11	SP-SC	SAA
D	190	NA	N	PH01	12	12	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay content, low plasticity, dry, cohesive, massive, uniform, no staining, no odor
M	1,725	NA	Y	PH01	13	13	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, moist, cohesive, massive, uniform, no staining, slight odor
D	1,114	NA	Y	PH01	14	14	SP-SC	SAA
D	2,122	NA	N	PH01	15	15	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay content, low plasticity, dry, cohesive, massive, uniform, no staining, no odor
D	156	NA	N	PH01	16	16	SP-SC	SAA



APPENDIX E

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: Wool Head Pad D

Work Order: E309145

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/22/23

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: 9/22/23



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

Project Name: Wool Head Pad D
Workorder: E309145
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

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

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ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

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: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/22/23 13:28
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E309145-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS02 - 0.5'	E309145-02A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS03 - 0.5'	E309145-03A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS04 - 0.5'	E309145-04A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
PH01 - 4'	E309145-05A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
PH01 - 12'	E309145-06A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------

SS01 - 0.5'

E309145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS	Batch: 2338067	
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS	Batch: 2338067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL	Batch: 2338065	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		83.9 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS	Batch: 2338071	
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------

SS02 - 0.5'

E309145-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		88.2 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------

SS03 - 0.5'

E309145-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		83.1 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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SS04 - 0.5'

E309145-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		89.3 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	28.6	20.0	1	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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PH01 - 4'

E309145-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	0.385	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	0.287	0.0250	1	09/21/23	09/21/23	
Toluene	0.869	0.0250	1	09/21/23	09/21/23	
o-Xylene	0.224	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	0.776	0.0500	1	09/21/23	09/21/23	
Total Xylenes	1.00	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	26.7	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		85.0 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	13700	400	20	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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PH01 - 12'

E309145-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.7 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>		89.4 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	273	20.0	1	09/21/23	09/21/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338067-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9		70-130		

LCS (2338067-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.01	0.0250	5.00		100		70-130		
Ethylbenzene	4.82	0.0250	5.00		96.4		70-130		
Toluene	5.00	0.0250	5.00		100		70-130		
o-Xylene	4.96	0.0250	5.00		99.2		70-130		
p,m-Xylene	9.95	0.0500	10.0		99.5		70-130		
Total Xylenes	14.9	0.0250	15.0		99.4		70-130		
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8		70-130		

Matrix Spike (2338067-MS1)

Source: E309146-06

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	10.0	0.0500	10.0	ND	100		54-133		
Ethylbenzene	9.67	0.0500	10.0	ND	96.7		61-133		
Toluene	10.0	0.0500	10.0	ND	100		61-130		
o-Xylene	9.92	0.0500	10.0	ND	99.2		63-131		
p,m-Xylene	19.9	0.100	20.0	ND	99.5		63-131		
Total Xylenes	29.8	0.0500	30.0	ND	99.4		63-131		
Surrogate: 4-Bromochlorobenzene-PID	15.3		16.0		95.7		70-130		

Matrix Spike Dup (2338067-MSD1)

Source: E309146-06

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	9.80	0.0500	10.0	ND	98.0		54-133	2.23	20
Ethylbenzene	9.45	0.0500	10.0	ND	94.5		61-133	2.30	20
Toluene	9.79	0.0500	10.0	ND	97.9		61-130	2.33	20
o-Xylene	9.68	0.0500	10.0	ND	96.8		63-131	2.38	20
p,m-Xylene	19.5	0.100	20.0	ND	97.5		63-131	2.04	20
Total Xylenes	29.2	0.0500	30.0	ND	97.3		63-131	2.15	20
Surrogate: 4-Bromochlorobenzene-PID	15.3		16.0		95.4		70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338067-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

LCS (2338067-BS2)

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	70-130			

Matrix Spike (2338067-MS2)

Source: E309146-06

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	90.7	40.0	100	ND	90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	13.9		16.0		87.0	70-130			

Matrix Spike Dup (2338067-MSD2)

Source: E309146-06

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	92.6	40.0	100	ND	92.6	70-130	2.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.1		16.0		88.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338065-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	45.3		50.0		90.5	50-200			

LCS (2338065-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: <i>n-Nonane</i>	41.6		50.0		83.2	50-200			

Matrix Spike (2338065-MS1)

Source: E309145-06

Prepared: 09/21/23 Analyzed: 09/21/23

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132			
Surrogate: <i>n-Nonane</i>	38.1		50.0		76.1	50-200			

Matrix Spike Dup (2338065-MSD1)

Source: E309145-06

Prepared: 09/21/23 Analyzed: 09/21/23

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	2.99	20	
Surrogate: <i>n-Nonane</i>	40.1		50.0		80.3	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338071-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride ND 20.0

LCS (2338071-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 256 20.0 250 102 90-110

Matrix Spike (2338071-MS1)

Source: E309145-01

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 265 20.0 250 ND 106 80-120

Matrix Spike Dup (2338071-MSD1)

Source: E309145-01

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 267 20.0 250 ND 107 80-120 0.947 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/22/23 13:28
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program		
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E30914S	23052-0001		X					
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com		State								
Email: agiovengo@ensolum.com		Report due by:		NM	CO	UT	AZ	TX	Remarks			
X												

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	Remarks
13:34	9/19/2023	Soil	1	SS01 - 0.5'	1						X				
13:39	9/19/2023	Soil	1	SS02 - 0.5'	2						X				
13:45	9/19/2023	Soil	1	SS03 - 0.5'	3						X				
13:53	9/19/2023	Soil	1	SS04 - 0.5'	4						X				
9:21	9/19/2023	Soil	1	PH01 - 4'	5						X				
11:00	9/19/2023	Soil	1	PH01 - 12'	6						X				

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

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>09/20/23</u>	Time <u>13:07</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>9-20-23</u>	Time <u>1307</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>9-20-23</u>	Time <u>1700</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>9-20-23</u>	Time <u>1730</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>9-20-23</u>	Time <u>2400</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>9-21-23</u>	Time <u>8:15</u>	

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

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



Released to Imaging: 2/6/2024 8:11:14 AM

Retrieved by: OCD: 10/23/2023 1:49:23 PM

Page 44 of 157

Envirotech Analytical Laboratory

Printed: 9/21/2023 8:43:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 09/21/23 08:15	Work Order ID: E309145
Phone: (972) 371-5200	Date Logged In: 09/20/23 14:30	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 09/21/23 17:00 (0 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Comments/Resolution

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E309148

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/23

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: 9/25/23



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

Project Name: Wool Head Pad D
Workorder: E309148
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

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: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/25/23 12:05
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 15'	E309148-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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PH01 - 15'

E309148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2338070
Benzene	ND	0.0250	1	09/21/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/22/23	
Toluene	ND	0.0250	1	09/21/23	09/22/23	
o-Xylene	ND	0.0250	1	09/21/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.0 %	70-130	09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2338070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2338077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
<i>Surrogate: n-Nonane</i>		98.7 %	50-200	09/21/23	09/22/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2338078
Chloride	284	20.0	1	09/21/23	09/22/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338070-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

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	7.61		8.00		95.2	70-130			

LCS (2338070-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2338070-MS1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2338070-MSD1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.11	0.0250	5.00	ND	102	54-133	1.13	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	1.16	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	1.05	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.24	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	1.31	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	1.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338070-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

LCS (2338070-BS2)

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike (2338070-MS2)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2338070-MSD2)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130	0.904	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338077-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	49.4		50.0		98.8	50-200			

LCS (2338077-BS1)

Prepared: 09/21/23 Analyzed: 09/23/23

Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: <i>n-Nonane</i>	59.2		50.0		118	50-200			

Matrix Spike (2338077-MS1)

Source: E309141-26

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: <i>n-Nonane</i>	46.5		50.0		92.9	50-200			

Matrix Spike Dup (2338077-MSD1)

Source: E309141-26

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	1.93	20	
Surrogate: <i>n-Nonane</i>	49.4		50.0		98.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338078-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride ND 20.0

LCS (2338078-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 267 20.0 250 107 90-110

Matrix Spike (2338078-MS1)

Source: E309144-01

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 329 200 250 ND 131 80-120 M5

Matrix Spike Dup (2338078-MSD1)

Source: E309144-01

Prepared: 09/21/23 Analyzed: 09/22/23

Chloride 334 200 250 ND 134 80-120 1.64 20 M5

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/25/23 12:05
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- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. 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

Note (1): Methods marked with ** are non-accredited methods.
 Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Envirotech Analytical Laboratory

Printed: 9/21/2023 8:54:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 09/21/23 08:15 Work Order ID: E309148
Phone: (972) 371-5200 Date Logged In: 09/20/23 14:40 Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com Due Date: 09/27/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E309149

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/23

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: 9/25/23



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

Project Name: Wool Head Pad D
Workorder: E309149
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/25/23 12:07
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 16'	E309149-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

PH01 - 16'

E309149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2338070
Benzene	ND	0.0250	1	09/21/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/22/23	
Toluene	ND	0.0250	1	09/21/23	09/22/23	
o-Xylene	ND	0.0250	1	09/21/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2338070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2338077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		09/21/23	09/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338078
Chloride	290	20.0	1	09/21/23	09/22/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

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 (2338070-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

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	7.61		8.00		95.2	70-130			

LCS (2338070-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2338070-MS1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2338070-MSD1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.11	0.0250	5.00	ND	102	54-133	1.13	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	1.16	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	1.05	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.24	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	1.31	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	1.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338070-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

LCS (2338070-BS2)

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike (2338070-MS2)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2338070-MSD2)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130	0.904	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338077-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2338077-BS1)

Prepared: 09/21/23 Analyzed: 09/23/23

Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	59.2		50.0		118	50-200			

Matrix Spike (2338077-MS1)

Source: E309141-26

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	46.5		50.0		92.9	50-200			

Matrix Spike Dup (2338077-MSD1)

Source: E309141-26

Prepared: 09/21/23 Analyzed: 09/22/23

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	1.93	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338078-BLK1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride ND 20.0

LCS (2338078-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 267 20.0 250 107 90-110

Matrix Spike (2338078-MS1)

Source: E309144-01

Prepared: 09/21/23 Analyzed: 09/21/23

Chloride 329 200 250 ND 131 80-120 M5

Matrix Spike Dup (2338078-MSD1)

Source: E309144-01

Prepared: 09/21/23 Analyzed: 09/22/23

Chloride 334 200 250 ND 134 80-120 1.64 20 M5

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/25/23 12:07
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. 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

Note (1): Methods marked with ** are non-accredited methods.
 Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT				EPA Program						
Project: Wool Head Pad D												Attention: Matador Production Company		Lab WO#	Job Number	1D
Project Manager: Ashley Gioveno				Address: on file		E309149		230520001		X						
Address: 3122 National Parks Hwy				City, State, Zip:		Analysis and Method									RCRA	
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDOC TX	State			
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com		NM	CO								UT	AZ	TX	
Email: agioveno@ensolum.com		Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDOC TX	Remarks					
13:20	9/19/2023	Soil	1	PH01 - 16'	1						X							

Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, chadhilton@ensolum.com

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

Relinquished by: (Signature)				Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)				09/20/23	13:07	Received by: (Signature)		9-20-23	1307	
Relinquished by: (Signature)				9-20-23	1700	Received by: (Signature)		9-20-23	1730	
Relinquished by: (Signature)				9-20-23	2400	Received by: (Signature)		9-21-23	8:15	

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

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



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Envirotech Analytical Laboratory

Printed: 9/21/2023 8:55:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 09/21/23 08:15	Work Order ID: E309149
Phone: (972) 371-5200	Date Logged In: 09/20/23 14:41	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 09/27/23 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310035

Job Number: 23052-0001

Received: 10/6/2023

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
10/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/6/23



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

Project Name: Wool Head Pad D
Workorder: E310035
Date Received: 10/6/2023 6:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/6/2023 6:15:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
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Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

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: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/06/23 15:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 15'	E310035-01A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS02 - 15'	E310035-02A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS03 - 15'	E310035-03A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS04 - 15'	E310035-04A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS05 - 15'	E310035-05A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW01 - 0-15'	E310035-06A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW02 - 0-15'	E310035-07A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW03 - 0-15'	E310035-08A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW04 - 0-15'	E310035-09A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW05 - 0-15'	E310035-10A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW06 - 0-15'	E310035-11A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW07 - 7'	E310035-12A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS01 - 15'

E310035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		83.4 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		83.4 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		94.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2340099
Chloride	416	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS02 - 15'
E310035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		95.7 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	477	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS03 - 15'

E310035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	319	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS04 - 15'

E310035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		97.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	442	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS05 - 15'

E310035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		98.4 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	394	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW01 - 0-15'

E310035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	262	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW02 - 0-15'

E310035-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.1 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		119 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.1 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		119 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		92.0 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	ND	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW03 - 0-15'

E310035-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		87.5 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		87.5 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	ND	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW04 - 0-15'

E310035-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		97.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	295	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW05 - 0-15'

E310035-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		94.2 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	50.2	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW06 - 0-15'

E310035-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.0 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		97.4 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	28.5	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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SW07 - 7'

E310035-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		83.7 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	10/06/23	10/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	10/06/23	10/06/23	
<i>Surrogate: Toluene-d8</i>		83.7 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
<i>Surrogate: n-Nonane</i>		95.9 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	20.6	20.0	1	10/06/23	10/06/23	



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/06/23 15:10
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program			
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file		E310035	23052-0001		X						
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398										State	
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com										NM	
Email: agiovengo@ensolum.com												Remarks	
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:40	10/4/2023	Soil	1 Jar	FS01 - 15'	1						X		
10:05	10/4/2023	Soil	1 Jar	FS02 - 15'	2						X		
10:52	10/4/2023	Soil	1 Jar	FS03 - 15'	3						X		
14:10	10/4/2023	Soil	1 Jar	FS04 - 15'	4						X		
15:03	10/4/2023	Soil	1 Jar	FS05 - 15'	5						X		
10:12	10/4/2023	Soil	1 Jar	SW01 - 0-15'	6						X		
11:27	10/4/2023	Soil	1 Jar	SW02 - 0-15'	7						X		
11:56	10/4/2023	Soil	1 Jar	SW03 - 0-15'	8						X		
10:41	10/4/2023	Soil	1 Jar	SW04 - 0-15'	9						X		
10:36	10/4/2023	Soil	1 Jar	SW05 - 0-15'	10						X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 5 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>			Date: 10-5-23	Time: 6:35	Received by: (Signature) <i>[Signature]</i>			Date: 10-5-23	Time: 1045	Lab Use Only		
Relinquished by: (Signature) <i>[Signature]</i>			Date: 10-5-23	Time: 1630	Received by: (Signature) <i>[Signature]</i>			Date: 10-5-23	Time: 1930	Received on ice: <input checked="" type="checkbox"/> Y / N		
Relinquished by: (Signature) <i>[Signature]</i>			Date: 10-6-23	Time: 0130	Received by: (Signature) <i>[Signature]</i>			Date: 10/6/23	Time: 615	T1 _____ T2 _____ T3 _____		
									AVG Temp °C <u>4</u>			

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

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



Page 87 of 157

Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program					
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		Address: on file		E310035	23052-0001		X								
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA			
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com		Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:59	10/4/2023	Soil	1 Jar	SW06 - 0-15'	11						X		
12:30	10/4/2023	Soil	1 Jar	SW07 - 7'	12						X		

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

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

Sampled by:						Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	10-5-23	6:35	<i>[Signature]</i>	10-5-23	1045						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	10-5-23	1630	<i>[Signature]</i>	10-5-23	1930						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>[Signature]</i>	10-6-23	0130	<i>[Signature]</i>	10/6/23	615						

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

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



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Envirotech Analytical Laboratory

Printed: 10/6/2023 1:30:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 10/06/23 06:15	Work Order ID: E310035
Phone: (972) 371-5200	Date Logged In: 10/05/23 16:06	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 10/06/23 17:00 (0 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310043

Job Number: 23052-0001

Received: 10/6/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/11/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/11/23

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



Project Name: Wool Head Pad D
Workorder: E310043
Date Received: 10/6/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/6/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

The analytical test results summarized in this report with the Project Name: Wool Head Pad D 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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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: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/23 11:31
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05-0'	E310043-01A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SS06-0'	E310043-02A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SS07-0'	E310043-03A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-------------------------------------------

SS05-0'

E310043-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2341007
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		10/09/23	10/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340101
Chloride	58.4	20.0	1	10/06/23	10/08/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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SS06-0'

E310043-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.3 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2341007
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>		95.8 %	50-200	10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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SS07-0'

E310043-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.9 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2341007
Diesel Range Organics (C10-C28)	49.0	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>		86.4 %	50-200	10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-------------------------------------------

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340110-BLK1)

Prepared: 10/06/23 Analyzed: 10/09/23

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	7.67		8.00		95.8		70-130		

LCS (2340110-BS1)

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.67	0.0250	5.00		93.4		70-130		
Ethylbenzene	4.70	0.0250	5.00		94.1		70-130		
Toluene	4.72	0.0250	5.00		94.3		70-130		
o-Xylene	4.70	0.0250	5.00		94.1		70-130		
p,m-Xylene	9.61	0.0500	10.0		96.1		70-130		
Total Xylenes	14.3	0.0250	15.0		95.4		70-130		
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8		70-130		

Matrix Spike (2340110-MS1)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.85	0.0250	5.00	ND	97.0		54-133		
Ethylbenzene	4.89	0.0250	5.00	ND	97.8		61-133		
Toluene	4.89	0.0250	5.00	ND	97.9		61-130		
o-Xylene	4.90	0.0250	5.00	ND	98.0		63-131		
p,m-Xylene	9.97	0.0500	10.0	ND	99.7		63-131		
Total Xylenes	14.9	0.0250	15.0	ND	99.1		63-131		
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4		70-130		

Matrix Spike Dup (2340110-MSD1)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.80	0.0250	5.00	ND	96.0		54-133	1.01	20
Ethylbenzene	4.87	0.0250	5.00	ND	97.4		61-133	0.345	20
Toluene	4.87	0.0250	5.00	ND	97.5		61-130	0.448	20
o-Xylene	4.88	0.0250	5.00	ND	97.7		63-131	0.336	20
p,m-Xylene	9.94	0.0500	10.0	ND	99.4		63-131	0.281	20
Total Xylenes	14.8	0.0250	15.0	ND	98.8		63-131	0.299	20
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4		70-130		



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340110-BLK1)

Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

LCS (2340110-BS2)

Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

Matrix Spike (2340110-MS2)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2340110-MSD2)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	5.45	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-------------------------------------------

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2341007-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

LCS (2341007-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	243	25.0	250		97.2	38-132			
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

Matrix Spike (2341007-MS1)

Source: E310040-07

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	44.2		50.0		88.3	50-200			

Matrix Spike Dup (2341007-MSD1)

Source: E310040-07

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	3.40	20	
Surrogate: n-Nonane	46.7		50.0		93.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-------------------------------------------

Anions by EPA 300.0/9056A

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 (2340101-BLK1)

Prepared: 10/06/23 Analyzed: 10/08/23

Chloride ND 20.0

LCS (2340101-BS1)

Prepared: 10/06/23 Analyzed: 10/08/23

Chloride 244 20.0 250 97.7 90-110

Matrix Spike (2340101-MS1)

Source: E310036-01

Prepared: 10/06/23 Analyzed: 10/08/23

Chloride 379 20.0 250 129 99.9 80-120

Matrix Spike Dup (2340101-MSD1)

Source: E310036-01

Prepared: 10/06/23 Analyzed: 10/08/23

Chloride 383 20.0 250 129 102 80-120 1.06 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/23 11:31
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program			
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E310043	23052-0001				x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method							
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	RCRA
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com		State							
Email: agiovengo@ensolum.com		Report due by:		NM	CO	UT	AZ	TX			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
13:22	10/4/2023	Soil	1 Jar	SS05 - 0'	1						X		
13:45	10/4/2023	Soil	1 Jar	SS06 - 0'	2						X		
13:49	10/4/2023	Soil	1 Jar	SS07 - 0'	3						X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 5 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 10-5-23	Time 6:35	Received by: (Signature) <i>[Signature]</i>	Date 10-5-23	Time 1045	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 10-5-23	Time 1630	Received by: (Signature) <i>[Signature]</i>	Date 10-5-23	Time 1930	
Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 0130	Received by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 8:15	

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

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



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Envirotech Analytical Laboratory

Printed: 10/6/2023 3:16:12PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/06/23 08:15 Work Order ID: E310043
Phone: (972) 371-5200 Date Logged In: 10/05/23 17:30 Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com Due Date: 10/12/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310047

Job Number: 23052-0001

Received: 10/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/17/23



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

Project Name: Wool Head Pad D
Workorder: E310047
Date Received: 10/8/2023 10:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2023 10:45:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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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: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:26
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 - 20'	E310047-01A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS08 - 20'	E310047-02A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS09 - 20'	E310047-03A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS10 - 20'	E310047-04A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS11 - 20'	E310047-05A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS14 - 7'	E310047-06A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW08 - 0-7'	E310047-07A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW09 - 0-15'	E310047-08A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW10 - 0-15'	E310047-09A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW11 - 0-20'	E310047-10A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW12 - 0-15'	E310047-11A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW13 - 0-20'	E310047-12A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW14 - 0-20'	E310047-13A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW15 - 0-20'	E310047-14A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW16 - 0-20'	E310047-15A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW17 - 0-7'	E310047-16A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW18 - 0-15'	E310047-17A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS07 - 20'

E310047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.0 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		74.8 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2341009
Chloride	3700	40.0	2	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS08 - 20'

E310047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		70.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	265	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS09 - 20'

E310047-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		74.3 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	846	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS10 - 20'

E310047-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		75.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	277	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS11 - 20'

E310047-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		77.8 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	216	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS14 - 7'

E310047-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		74.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	3530	40.0	2	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW08 - 0-7'

E310047-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		77.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	253	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW09 - 0-15'

E310047-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		66.6 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW10 - 0-15'

E310047-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		81.2 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	58.4	20.0	1	10/09/23	10/09/23	



Sample Data

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SW11 - 0-20'

E310047-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		80.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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SW12 - 0-15'

E310047-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		79.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW13 - 0-20'

E310047-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		85.0 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW14 - 0-20'

E310047-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.7 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		82.8 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	459	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW15 - 0-20'

E310047-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		79.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW16 - 0-20'

E310047-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		78.6 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW17 - 0-7'

E310047-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.5 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
		86.6 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW18 - 0-15'

E310047-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		87.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341003-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

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	7.68		8.00		96.0	70-130			

LCS (2341003-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.6	70-130			

Matrix Spike (2341003-MS1)

Source: E310047-07

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.57	0.0250	5.00	ND	91.4	54-133			
Ethylbenzene	4.57	0.0250	5.00	ND	91.3	61-133			
Toluene	4.60	0.0250	5.00	ND	92.0	61-130			
o-Xylene	4.61	0.0250	5.00	ND	92.1	63-131			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike Dup (2341003-MSD1)

Source: E310047-07

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.84	0.0250	5.00	ND	96.8	54-133	5.77	20	
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	61-133	6.00	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	5.56	20	
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131	5.54	20	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131	5.86	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	5.76	20	
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341003-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			

LCS (2341003-BS2)

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike (2341003-MS2)

Source: E310047-07

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.6	70-130			

Matrix Spike Dup (2341003-MSD2)

Source: E310047-07

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	1.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341001-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n-Nonane</i>	49.2		50.0		98.5	50-200			

LCS (2341001-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	214	25.0	250		85.5	38-132			
Surrogate: <i>n-Nonane</i>	42.9		50.0		85.9	50-200			

Matrix Spike (2341001-MS1)

Source: E310047-08

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.6	38-132			
Surrogate: <i>n-Nonane</i>	38.7		50.0		77.4	50-200			

Matrix Spike Dup (2341001-MSD1)

Source: E310047-08

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132	1.76	20	
Surrogate: <i>n-Nonane</i>	38.9		50.0		77.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Anions by EPA 300.0/9056A

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 (2341009-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride	ND	20.0							
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LCS (2341009-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride	251	20.0	250		101	90-110			
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Matrix Spike (2341009-MS1)

Source: E310047-01

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride	3970	40.0	250	3700	111	80-120			
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Matrix Spike Dup (2341009-MSD1)

Source: E310047-01

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride	4130	40.0	250	3700	174	80-120	3.94	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:26
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Production Company.	Bill To	Lab Use Only	TAT	EPA Program
Project: Wool Head Pad D	Attention: Matador Production Company	Lab WO# E 310047	Job Number 23052-0001	CWA
Project Manager: Ashley Giovengo	Address: on file			SDWA
Address: 3122 National Parks Hwy	City, State, Zip:	Analysis and Method		
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	Metals 6010	Chloride 300.0	BGDOC NM
Email: agiovengo@ensolum.com				GDOC TX
Report due by:				Standard
				1D 2D 3D
				RCRA
				State
				NM CO UT AZ TX
				Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:52	10/5/2023	Soil	1 Jar	FS07 - 20'	1						X		
13:35	10/5/2023	Soil	1 Jar	FS08 - 20'	2						X		
13:38	10/5/2023	Soil	1 Jar	FS09 - 20'	3						X		
13:40	10/5/2023	Soil	1 Jar	FS10 - 20'	4						X		
13:42	10/5/2023	Soil	1 Jar	FS11 - 20'	5						X		
14:20	10/5/2023	Soil	1 Jar	FS14 - 7'	6						X		
9:09	10/5/2023	Soil	1 Jar	SW08 - 0-7'	7						X		
10:10	10/5/2023	Soil	1 Jar	SW09 - 0-15'	8						X		
9:56	10/5/2023	Soil	1 Jar	SW10 - 0-15'	9						X		
9:34	10/5/2023	Soil	1 Jar	SW11 - 0-15'	10						X		

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>
<i>[Signature]</i>	10-6-23	6:50	<i>[Signature]</i>	10-6-23	1015	
<i>[Signature]</i>	10-6-23	1730	<i>[Signature]</i>	10/6/23	1730	
<i>[Signature]</i>	10/6/23	11:11pm	<i>[Signature]</i>	10/6/23	10:45	

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

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



Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program		
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E 310047		Job Number					
Address: 3122 National Parks Hwy		City, State, Zip:		23052-0001							
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		Analysis and Method							
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	RCRA
Email: agiovengo@ensolum.com				State							
Report due by:				NM	CO	UT	AZ	TX			
				Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	Remarks
10:23	10/5/2023	Soil	1 Jar	SW12 - 0-15'	11						X		
10:25	10/5/2023	Soil	1 Jar	SW13 - 0-15'	12						X		
11:00	10/5/2023	Soil	1 Jar	SW14 - 0-15'	13						X		
12:55	10/5/2023	Soil	1 Jar	SW15 - 0-15'	14						X		
12:58	10/5/2023	Soil	1 Jar	SW16 - 0-15'	15						X		
13:55	10/5/2023	Soil	1 Jar	SW17 - 0-7'	16						X		
15:15	10/5/2023	Soil	1 Jar	SW18 - 0-15'	17						X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Sampled by:		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>			
<i>[Signature]</i>	10-6-23	6:56	<i>[Signature]</i>	10/6/23	1015				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time				
<i>[Signature]</i>	10/6/23	1730	<i>[Signature]</i>	10/6/23	1730				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time				
<i>[Signature]</i>	10/6/23	11:11pm	<i>[Signature]</i>	10/8/23	10:45				

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

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



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Envirotech Analytical Laboratory

Printed: 10/9/2023 9:20:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/08/23 10:45 Work Order ID: E310047
Phone: (972) 371-5200 Date Logged In: 10/06/23 16:13 Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com Due Date: 10/09/23 17:00 (0 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program			
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file		E 310047		23052-0001		X				
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				RCRA
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com										
Email: agiovengo@ensolum.com		Report due by:										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	GDOC	TX	Remarks
9:52	10/5/2023	Soil	1 Jar	FS07 - 20'	1						X			Changed sample names per C. Burton 10/17/23 CM
13:35	10/5/2023	Soil	1 Jar	FS08 - 20'	2						X			
13:38	10/5/2023	Soil	1 Jar	FS09 - 20'	3						X			
13:40	10/5/2023	Soil	1 Jar	FS10 - 20'	4						X			
13:42	10/5/2023	Soil	1 Jar	FS11 - 20'	5						X			
14:20	10/5/2023	Soil	1 Jar	FS14 - 7'	6						X			
9:09	10/5/2023	Soil	1 Jar	SW08 - 0-7'	7						X			
10:10	10/5/2023	Soil	1 Jar	SW09 - 0-15'	8						X			
9:56	10/5/2023	Soil	1 Jar	SW10 - 0-15'	9						X			
9:34	10/5/2023	Soil	1 Jar	SW11 - 0-15' 20'	10						X			

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 5°C on subsequent days.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
<i>[Signature]</i>		10-6-23	6:50	<i>[Signature]</i>		10-6-23	10:15	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____			
<i>[Signature]</i>		10-6-23	1730	<i>[Signature]</i>		10/6/23	1730				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>40</u>			
<i>[Signature]</i>		10/6/23	11:11pm	<i>[Signature]</i>		10/6/23	10:45				

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

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



Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program						
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo		Address: on file		E 310047	23052-0001	X									
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method											
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	State				
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com		Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX <th>Remarks</th>	Remarks
10:23	10/5/2023	Soil	1 Jar	SW12 - 0-15'	11						X		
10:25	10/5/2023	Soil	1 Jar	SW13 - 0-15' 20'	12						X		
11:00	10/5/2023	Soil	1 Jar	SW14 - 0-15' 20'	13						X		
12:55	10/5/2023	Soil	1 Jar	SW15 - 0-15' 20'	14						X		
12:58	10/5/2023	Soil	1 Jar	SW16 - 0-15' 20'	15						X		
13:55	10/5/2023	Soil	1 Jar	SW17 - 0-7'	16						X		
15:15	10/5/2023	Soil	1 Jar	SW18 - 0-15'	17						X		

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

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

Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 6:50	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 10:15	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 1730	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 1730	
Relinquished by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 11:11pm	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 10:48	

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

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

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



Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310049

Job Number: 23052-0001

Received: 10/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/17/23



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

Project Name: Wool Head Pad D
Workorder: E310049
Date Received: 10/8/2023 10:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2023 10:45:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 -20'	E310049-01A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS12 -07'	E310049-02A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS13 - 07'	E310049-03A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS15 - 07'	E310049-04A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS16 - 18'	E310049-05A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
SW19 - 0-20'	E310049-06A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
SW20 - 0-20'	E310049-07A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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FS06 -20'

E310049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23
Toluene	ND	0.0250	1	10/09/23	10/09/23
o-Xylene	ND	0.0250	1	10/09/23	10/09/23
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23

<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130		10/09/23	10/09/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.2 %	70-130		10/09/23	10/09/23
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		10/09/23	10/09/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23
<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130		10/09/23	10/09/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.2 %	70-130		10/09/23	10/09/23
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130		10/09/23	10/09/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23
<i>Surrogate: n-Nonane</i>	82.5 %	50-200		10/09/23	10/09/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341010
Chloride	416	20.0	1	10/09/23	10/09/23



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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FS12 -07'

E310049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		122 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		122 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		82.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	2540	40.0	2	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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FS13 - 07'

E310049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		94.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		94.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		84.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	1410	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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FS15 - 07'

E310049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		89.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		112 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		89.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		82.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	2530	40.0	2	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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FS16 - 18'

E310049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		88.3 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	447	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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SW19 - 0-20'

E310049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		93.5 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		93.5 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		92.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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SW20 - 0-20'

E310049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	10/09/23	10/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	70-130	10/09/23	10/09/23	
<i>Surrogate: Toluene-d8</i>		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>		92.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	ND	20.0	1	10/09/23	10/09/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341004-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

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	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2341004-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.31	0.0250	2.50		92.5	70-130			
Ethylbenzene	2.21	0.0250	2.50		88.5	70-130			
Toluene	2.25	0.0250	2.50		90.0	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
p,m-Xylene	4.40	0.0500	5.00		87.9	70-130			
Total Xylenes	6.65	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2341004-MS1)

Source: E310048-10

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.27	0.0250	2.50	ND	91.0	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.38	0.0250	2.50	ND	95.2	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2341004-MSD1)

Source: E310048-10

Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.62	0.0250	2.50	ND	105	48-131	13.9	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	4.44	27	
Toluene	2.45	0.0250	2.50	ND	98.1	48-130	3.00	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	5.66	27	
p,m-Xylene	4.97	0.0500	5.00	ND	99.4	43-135	2.45	27	
Total Xylenes	7.50	0.0250	7.50	ND	99.9	43-135	3.55	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341004-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2341004-BS2)

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2341004-MS2)

Source: E310048-10

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.531		0.500		106	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2341004-MSD2)

Source: E310048-10

Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	0.281	20	
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341002-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

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 (2341002-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	209	25.0	250		83.7	38-132			
Surrogate: n-Nonane	44.5		50.0		88.9	50-200			

Matrix Spike (2341002-MS1)

Source: E310048-01

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			

Matrix Spike Dup (2341002-MSD1)

Source: E310048-01

Prepared: 10/09/23 Analyzed: 10/09/23

Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.9	38-132	1.20	20	
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------

Anions by EPA 300.0/9056A

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 (2341010-BLK1)

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride ND 20.0

LCS (2341010-BS1)

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride 257 20.0 250 103 90-110

Matrix Spike (2341010-MS1)

Source: E310049-01

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride 654 20.0 250 416 95.3 80-120

Matrix Spike Dup (2341010-MSD1)

Source: E310049-01

Prepared: 10/09/23 Analyzed: 10/09/23

Chloride 681 20.0 250 416 106 80-120 3.93 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:28
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging: 2/6/2024 8:11:14 AM

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program			
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO# E 310049		Job Number 23052.0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		City, State, Zip:		Analysis and Method						RCRA	
Address: 3122 National Parks Hwy		Phone: (337) 319-8398											
City, State, Zip: Carlsbad NM, 88220		Email: clinton.talley@matadorresources.com		m								State	
Phone: 575-988-0055													
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	GDOC	TX	Remarks
8:55	10/6/2023	S	1 Jar	FS06 - 20'	1						X			
9:15	10/6/2023	S	1 Jar	FS12-07'	2						X			
9:17	10/6/2023	S	1 Jar	FS13-07'	3						X			
10:20	10/6/2023	S	1 Jar	FS15-07'	4						X			
10:42	10/6/2023	S	1 Jar	FS16-18'	5						X			
12:27	10/6/2023	S	1 Jar	SW19 - 0-15'	6						X			
13:56	10/6/2023	S	1 Jar	SW20 - 0-15'	7						X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com (Preserved on ice)

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

Relinquished by: (Signature) <i>[Signature]</i>			Date	Time	Received by: (Signature) <i>[Signature]</i>	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i>			10-6-23	4:16	10-6-23		16:16	
Relinquished by: (Signature) <i>[Signature]</i>			10-6-23	17:30	10/6/23		17:30	
Relinquished by: (Signature) <i>[Signature]</i>			10/6/23	11:11 pm	10/6/23		10:45	AVG Temp °C 4.0

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

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



Page 17 of 157

Envirotech Analytical Laboratory

Printed: 10/9/2023 10:06:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/08/23 10:45 Work Order ID: E310049
Phone: (972) 371-5200 Date Logged In: 10/06/23 16:20 Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com Due Date: 10/09/23 17:00 (0 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

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

Date



envirotech Inc.

Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program					
Project: Wool Head Pad D		Attention: Matador Production Company		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		Address: on file		E 310049	230520001		X								
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method											
City, State, Zip: Carlsbad NM, 88220		Phone: (337) 319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				RCRA			
Phone: 575-988-0055		Email: clinton.talley@matadorresources.co									State				
Email: agiovengo@ensolum.com		m									NM	CO	UT	AZ	TX
Report due by:											X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	Remarks
8:55	10/6/2023	S	1 Jar	FS06 - 20'	1						X		Changed sample names per C. Burton 10/17/23 CM
9:15	10/6/2023	S	1 Jar	FS12-07'	2						X		
9:17	10/6/2023	S	1 Jar	FS13-07'	3						X		
10:20	10/6/2023	S	1 Jar	FS15-07'	4						X		
10:42	10/6/2023	S	1 Jar	FS16-18'	5						X		
12:27	10/6/2023	S	1 Jar	SW19 - 0- 15 20'	6						X		
13:56	10/6/2023	S	1 Jar	SW20 - 0- 15 20'	7						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com (Preserved on ice)

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 4:16	Received by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 16:16	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 17:30	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 17:30	
Relinquished by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 11:11 pm	Received by: (Signature) <i>[Signature]</i>	Date 10/8/23	Time 10:45	

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

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





APPENDIX F
NMOCD Notifications

From: [Ashley Giovengo](#)
To: [Enviro, OCD, EMNRD; spills@slo.state.nm.us](#)
Cc: [clinton.talley@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#)
Subject: 48-hour Confirmation Sampling Notification Email - Wool Head Pad D - Incident Number nAPP2325965529
Date: Monday, October 2, 2023 10:29:27 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello,

We intend to collect confirmation samples at Matador Production Company's, Wool Head Pad D site (Incident Number nAPP2325965529) beginning on Wednesday, October 04, 2023, at 09:00 am MST through Friday, October 06, 2023.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

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

CONDITIONS

Action 278441

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 278441
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/6/2024