



CLOSURE REQUEST REPORT ADDENDUM

Site Location:

Dagger Lake 6 State #002
Lea County, New Mexico
Incident Number nGRL1026735254
October 2, 2023
Ensolum Project No. 03A2270004

Prepared for:

Matador Production Company
5400 Lyndon B Johnson FWY
Dallas, Texas 75240
Attention: Clinton Talley

Prepared by:

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Senior Engineer

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Senior Managing Geologist

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this *Closure Request Report Addendum* (CRRRA) on behalf of Matador Production Company, hereafter referred to as Matador, regarding the crude oil and produced water release at the Dagger Lake 6 State #002 (Site), located in Unit G, Section 6, Township 22 South, Range 33 East, in Lea County, New Mexico (**Figure 1**). Global Positioning System (GPS) coordinates for the Site are as follows: North 32.422657 and West 103.6096191. Surface owner of the Site is on State Land Trust managed by the New Mexico State Land Office (NMSLO).

On September 15, 2010, a truck driver cut the netting on top of a fiberglass water tank and unloaded a full load into the tank without permission. The tank overfilled, resulting in the release of approximately 5 to 7 barrels (bbls) of crude oil and produced water onto the caliche pad directly behind the tank battery. The spill ran south across the edge of the caliche pad and traveled approximately 75 yards into the pasture. Amtex Energy, Inc. (Amtex), the previous operator, reported the release to the New Mexico Oil Conservation Division (NMOCD) and filed a Corrective Action Form C-141 (Form C-141) on September 24, 2010. Subsequently, NMOCD assigned Incident Number nGRL1026735254 to the release. This location has since been reclaimed.

Amtex completed the initial spill cleanup, scraped, and excavated the impacted areas, and conducted sampling activities at the Site. NMOCD employee Geoffrey Lecking reviewed the laboratory analytical results from the sampling activities and approved the Site for backfill. A total of 12 cubic yards of clean topsoil was used to backfill the scraped area in the pasture and caliche was spread across the scraped area on pad. The pasture area was reseeded once the backfill was completed and the on-pad area has since been reclaimed and reseeded.

On November 5, 2010, a Remediation *Closure Report* (CR), authored by Jacob Melancon, Environmental Supervisor for Amtex, was submitted to the NMOCD for the release associated with Incident Number nGRL1026735254; however, the request was denied. The CR was submitted prior to the release of NMOCD's *Procedures for Implementation of the Spill Rule*, effective September 6, 2019, and as a result, samples collected during the initial remediation did not meet the reclamation requirements set forth in Title 19, Chapter 15, Part 29, Section 13 (19.15.29.13) of the New Mexico Administrative Code (NMAC). This CRRRA addresses additional delineation sampling activities and based on laboratory analytical results, Matador respectfully requests no further action (NFA) for Incident Number nGRL1026735254. The original CR and other supporting documents can be viewed on the NMOCD web portal.

2.0 SITE CHARACTERIZATION

The Site was assessed for applicability of Table I, Closure Criteria for Soils Impacted by a Release, from 19.15.29 NMAC during the original CR. Results from the characterization desktop review are presented on page 3 of the Form C-141 (**Appendix A**), Site Assessment/Characterization. Potential Site receptors are identified on **Figure 1**. The appropriate water well record is included in **Appendix B**.

Based on the desktop review of nearby receptors and depth to groundwater determination at the Site (greater than 100 feet below ground surface (bgs)), the following NMOCD Table I Closure Criteria (Closure Criteria) was applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total Petroleum Hydrocarbon (TPH): 2,500 mg/kg
- Chloride: 20,000 mg/kg

Per 19.15.29.13 NMAC, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the original spill and the reclaimed caliche pad.

3.0 DELINEATION SAMPLING ACTIVITIES

Beginning on July 10, 2023, Ensolum personnel arrived onsite to perform delineation soil sampling in the vicinity of the original spill area, see **Figure 2**. Ensolum personnel collected 15 delineation soil samples (SS01 through SS15) at 0.5 feet bgs in the pasture area on the west side of the caliche pad. On September 1, 2023, Ensolum personnel returned to collect additional soil samples (SS01, SS03, SS05, SS07, SS09, SS11, SS13, SS14, and SS15) at a depth of 1-foot bgs (see **Figure 2**). Soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Photographic documentation is included in **Appendix C**.

Delineation soil samples were properly packaged, preserved, and transported to Envirotech Analytical Laboratory (Envirotech), following proper chain-of-custody procedures and were analyzed for the following constituents of concern (COCs): TPH following United States Environmental Protection Agency (EPA) Method 8015D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.

Laboratory analytical results indicated all COC concentrations were in compliance with the reclamation requirement and the Closure Criteria for the Site. Laboratory analytical results are presented in **Table 1** and laboratory analytical reports are included in **Appendix D**.

A cultural resources survey was not completed since assessment activities were completed with a hand auger and the area was already cleared of any cultural resources. As such, the Cultural Properties Protection Rule (CPP) has been followed for this release. In addition, there is no reclamation plan related to the release since the well has been plugged and abandoned and the associated well pad has already been reclaimed. Based on soil analytical data from this assessment, impacted and/or waste-containing soil is not present as they relate to this release and therefore no remedial actions are required. As such, a reclamation plan is not included in this CRRA.

4.0 CLOSURE REQUEST

On behalf of Matador, Ensolum hereby requests closure for the release associated with Incident Number nGRL1026735254 based on the findings and conclusion listed below:

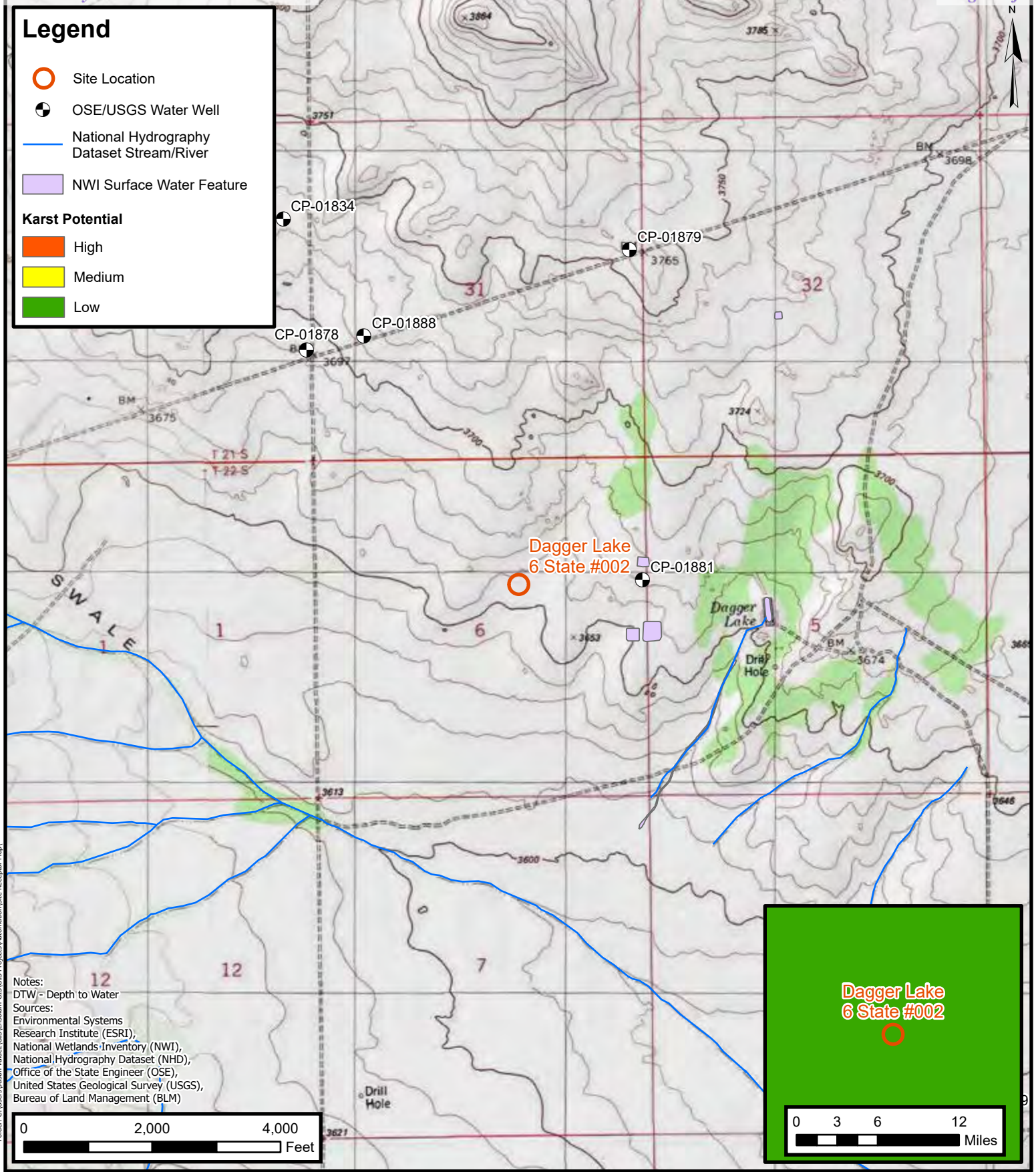
- Samples collected from the release area met the requirements set forth in the reclamation requirement per 19.15.29.13 NMAC.
- The Site has been reclaimed and re-vegetation has been established; see photographic log (**Appendix C**).

Remedial actions completed at the Site for Incident Numbers nGRL1026735254 have been protective of human health, the environment, and groundwater.

A cultural resources survey was not completed since assessment activities were completed with a hand auger and the area was already cleared of any cultural resources. As such, the CPP has been followed for this release. In addition, there is no reclamation plan related to the release since the well has been plugged and abandoned and the associated well pad has already been reclaimed. Based on soil analytical data from this assessment, impacted and/or waste-containing soil is not present as they relate to this release and therefore no remedial actions are required. Therefore, a reclamation plan is not included in this CRRA.



FIGURES



Site Receptor Map

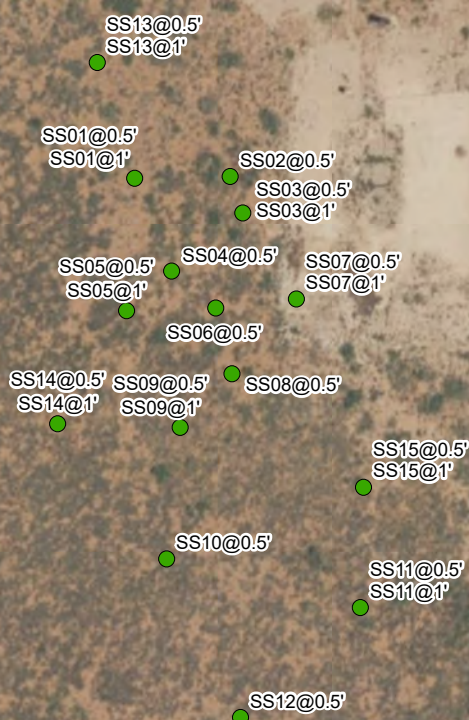
Matador Production Company
Dagger Lake 6 State #002
Incident Number: NGRL1026735254
Unit G, Sec 6, T22S, R33E
Lea County, New Mexico

FIGURE

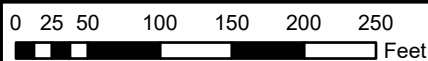
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Matador Production Company
Dagger Lake 6 State #002
Incident Number: NGRL1026735254
Unit G, Sec 6, T22S, R33E
Lea County, New Mexico

FIGURE
2



TABLES

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Dagger Lake 6 State #002 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)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS01	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS02	7/11/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS03	7/11/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS03	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS04	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS05	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS05	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS06	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS07	7/11/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	24.0
SS07	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	29.9
SS08	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS09	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS09	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS10	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	59.2
SS11	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS11	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS12	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS13	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS13	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS14	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS14	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20
SS15	7/10/2023	0.5	<0.0250	<0.0250	<20	<25	<50	<25	<50	<20
SS15	9/12/2023	1	<0.0250	<0.0250	<20	<25	<50	<50	<50	<20

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: 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 NMOCDC 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

C-141 Form

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

SEP 23 2010

HOBBSOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	<i>Am tex</i>	Contact	<i>Bill Savage</i>
Address		Telephone No.	<i>432 - 770 - 0913</i>
Facility Name	<i>Dagger Lake 6 State # 2</i>	Facility Type	<i>Production well</i>
Surface Owner		Mineral Owner	
		Lease No.	

LOCATION OF RELEASE API # *30.025.27573.00.00*

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>9</i>	<i>6</i>	<i>22S</i>	<i>33E</i>					

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	<i>BS + oil</i>	Volume of Release	<i>5-7 BBL</i>	Volume Recovered	<i>0</i>
Source of Release	<i>open top water tank</i>	Date and Hour of Occurrence	<i>9.15</i>	Date and Hour of Discovery	<i>9.16</i>
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	<i>OCD</i>	<i>11 p.m.</i>	<i>8 a.m.</i>
By Whom?	<i>none</i>	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<i>none</i>		

If a Watercourse was Impacted, Describe Fully.*

*none**GW @ 310'*

Describe Cause of Problem and Remedial Action Taken.*

Trucker dumped load in tank causing tank to overflow spilling oil on ground behind tanks and went south in Pasture - Scraped up area

Describe Area Affected and Cleanup Action Taken.*

Area affected was west behind tanks and pasture south of location Scraped up Contamination and hauled to Lazy Ace land farm Sampled area - Field analysis clean took to lab for analysis

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: *William J Savage*Printed Name: *William J. Savage*Title: *President*E-mail Address: *billsavage@verizon.net*Date: *9-23-2010*Phone: *432-770-0913*

ENV. ENGINEER:
Approved by District Supervisor:

Approval Date: *09/24/10*Expiration Date: *11/24/10*

Conditions of Approval: *SUBMIT FINAL*
C-141 BY 11/24/10

Attached ☐

IRP-10-9-2616

* Attach Additional Sheets If Necessary

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

OCT 28 2010

HOBBSOCD

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	AMTEX ENERGY, INC.	Contact	BILL SAVAGE
Address	P.O. Box 3418, Midland, TX 79702	Telephone No.	432-686-0847
Facility Name	DAGGER LAKE 6 STATE NO. 002	Facility Type	TANK BATTERY
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE

API No.: 30-025-27573

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	6	22S	33E	N/A	N/A	N/A	N/A	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	BS & OIL	Volume of Release	5-7 BBL	Volume Recovered	0
Source of Release	Open top Water tank	Date and Hour of Occurrence	9/15 11p.m.	Date and Hour of Discovery	9/16 8a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	OCD		
By Whom?	—	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	None		

If a Watercourse was Impacted, Describe Fully.*

None

Describe Cause of Problem and Remedial Action Taken.*

Truck driver put hose in open top of tank and ran over tank behind tank battery and south in pasture. Scraped up contamination and hauled off to Lazy Ace for disposal

Describe Area Affected and Cleanup Action Taken.*

Area affected was west of tanks and south in pasture - Scraped up and hauled off loads to disposal Brought in Caliche and Top Soil and Backfilled areas

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: William J. Savage	Approved by District Supervisor: [Signature]	
Printed Name: William J. Savage	Approval Date: 11/02/10	Expiration Date: —
Title: President	Conditions of Approval:	
E-mail Address: billsavage@verizon.net	Attached <input type="checkbox"/>	
Date: 11/02/10 Phone: 432-686-0847	IRP-10-9-2616	

* Attach Additional Sheets If Necessary

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

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1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

NOV 09 2010

HOBBSOCD

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SEP 23 2010

HOBBSOCD

Form C-141

Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	<i>Am tex</i>	Contact	<i>B. J. Savage</i>
Address		Telephone No.	<i>432 - 770 - 0913</i>
Facility Name	<i>Dagger Lake 6 State # 2</i>	Facility Type	<i>Production well</i>
Surface Owner		Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>G</i>	<i>6</i>	<i>22S</i>	<i>33E</i>					

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	<i>BS + oil</i>	Volume of Release	<i>5-7 BBL</i>	Volume Recovered	<i>0</i>
Source of Release	<i>open top water tank</i>	Date and Hour of Occurrence	<i>9-15</i>	Date and Hour of Discovery	<i>9-16</i>
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	<i>OCD</i>	<i>11 p.m.</i>	<i>8 a.m.</i>
By Whom?	<i>none</i>	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<i>none</i>		

If a Watercourse was Impacted, Describe Fully.*

none

Describe Cause of Problem and Remedial Action Taken.*

Trucker dumped load in tank causing tank to overflow spilling oil on ground behind tanks and went south in Pasture - Scraped up area

Describe Area Affected and Cleanup Action Taken.*

Area affected was west behind tanks and pasture south of location Scraped up Contamination and hauled to Lazy Ace Land Farm Sampled area - Field analysis clean took to lab for analysis

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: <i>William J. Savage</i>	ENV. ENGINEER:	
Printed Name: <i>William J. Savage</i>	Approved by District Supervisor: <i>Jeffrey L. King</i>	
Title: <i>President</i>	Approval Date: <i>09/24/10</i>	Expiration Date: <i>11/24/10</i>
E-mail Address: <i>bill.savage@verizon.net</i>	Conditions of Approval: <i>SUBMIT FINAL C-141 BY 11/24/10</i>	Attached <input type="checkbox"/> <i>IRP-10-9-2616</i>
Date: <i>9-23-2010</i>	Phone: <i>432-770-0913</i>	

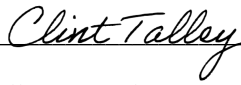
* Attach Additional Sheets If Necessary

Incident ID	nGRL1026735254
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" 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)?	

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 <u>not</u> 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: <u>Clinton Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>10/02/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nGRL1026735254
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?	<u>>105</u> (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 type="checkbox"/> Yes <input checked="" 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.

State of New Mexico
Oil Conservation Division

Incident ID	nGRL1026735254
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: Clinton Talley Title: EHS Supervisor

Signature:  Date: 10/02/2023

email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 10/6/2023

Incident ID	nGRL1026735254
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: Clinton Talley Title: EHS Supervisor

Signature:  Date: 10/02/2023

email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 10/6/2023

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: _____ Date: _____

Printed Name: _____ Title: _____



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-1881			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 25	SECONDS 22	N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND • DATUM REQUIRED: WGS 84	
		LATITUDE LONGITUDE		103	36	12		W
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec. 06 T22S R33E							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/12/2021		DRILLING ENDED 10/12/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						


FOR OSE INTERNAL USE

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

FILE NO. CP-1881		POD NO. 1	TRN NO. 699675
LOCATION 2X 33E.10.242		WELL TAG ID NO. —	PAGE 1 OF 2

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

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. <div style="text-align: right;">USE DTI NOV 2 2021 AM 9:14</div>	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt	

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

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



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

Dagger Lake 6 State #002

NGRL1026735254



Photograph 1

Date: 7/11/23

Description: Monument

View: Southeast



Photograph 2

Date: 7/10/23

Description: Release area during assessment

View: South

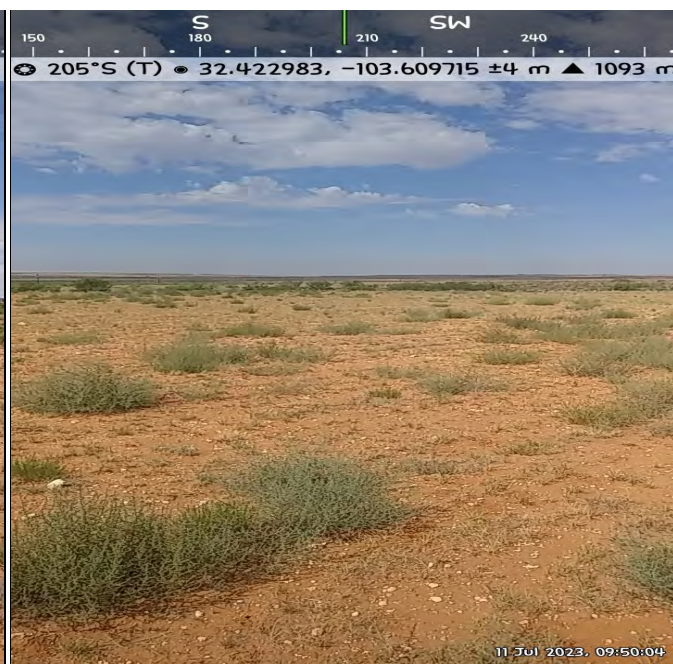


Photograph 3

Date: 7/10/23

Description: Release area during assessment

View: North



Photograph 4

Date: 7/11/2023

Description: Photo taken during assessment

View: Southwest



Photographic Log

Matador Production Company

Dagger Lake 6 State #002

NGRL1026735254

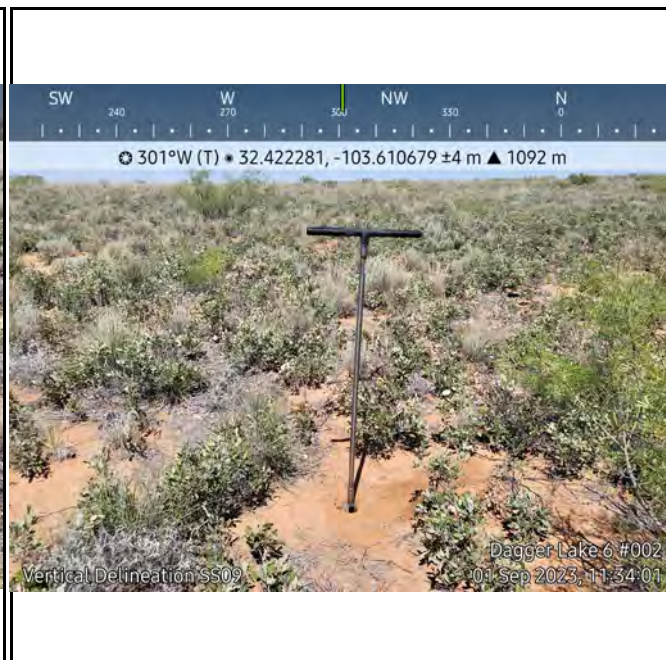


Photograph 5

Date: 9/1/23

Description: Delineation

View: Southwest



Photograph 6

Date: 9/1/23

Description: Delineation

View: Northwest



Photograph 7

Date: 9/1/23

Description: Delineation

View: North



Photograph 8

Date: 9/1/23

Description: Delineation

View: Northeast



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger Lake 6 State #002

Work Order: E307049

Job Number: 23052-0001

Received: 7/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/23

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: 9/26/23

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



Project Name: Dagger Lake 6 State #002
Workorder: E307049
Date Received: 7/13/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/13/2023 8:15:00AM, under the Project Name: Dagger Lake 6 State #002.

The analytical test results summarized in this report with the Project Name: Dagger Lake 6 State #002 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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
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: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
09/26/23 10:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E307049-01A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS02 - 0.5'	E307049-02A	Soil	07/11/23	07/13/23	Glass Jar, 4 oz.
SS03 - 0.5'	E307049-03A	Soil	07/11/23	07/13/23	Glass Jar, 4 oz.
SS04 - 0.5'	E307049-04A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS05 - 0.5'	E307049-05A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS06 - 0.5'	E307049-06A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS07 - 0.5'	E307049-07A	Soil	07/11/23	07/13/23	Glass Jar, 4 oz.
SS08 - 0.5'	E307049-08A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS09 - 0.5'	E307049-09A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS10 - 0.5'	E307049-10A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS11 - 0.5'	E307049-11A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS12 - 0.5'	E307049-12A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS13 - 0.5'	E307049-13A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS14 - 0.5'	E307049-14A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS15 - 0.5'	E307049-15A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS16 - 0.5'	E307049-16A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS17 - 0.5'	E307049-17A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS18 - 0.5'	E307049-18A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS19 - 0.5'	E307049-19A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.
SS20 - 0.5'	E307049-20A	Soil	07/10/23	07/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS01 - 0.5'

E307049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.4 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS02 - 0.5'

E307049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 State #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:41:57AM
---	--	--

SS03 - 0.5'

E307049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.6 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.7 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>	101 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS04 - 0.5'

E307049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.6 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>						
	91.2 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328059
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS05 - 0.5'

E307049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.0 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.4 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>	96.1 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS06 - 0.5'

E307049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.7 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>						
	81.1 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS07 - 0.5'

E307049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.8 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.1 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>	101 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	24.0	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS08 - 0.5'

E307049-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.0 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.1 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
<i>Surrogate: n-Nonane</i>	101 %	50-200		07/18/23	07/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 State #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:41:57AM
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SS09 - 0.5'

E307049-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.0 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>	95.4 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 State #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:41:57AM
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SS10 - 0.5'

E307049-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.7 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>	94.4 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	59.2	20.0	1	07/14/23	07/17/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 State #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:41:57AM
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SS11 - 0.5'

E307049-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.2 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>	95.3 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS12 - 0.5'

E307049-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.5 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	99.2 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328059
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 State #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:41:57AM
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SS13 - 0.5'

E307049-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.7 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329019	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>	86.6 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328059	
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS14 - 0.5'

E307049-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.8 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	88.8 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328059
Chloride	ND	20.0	1	07/14/23	07/17/23	



Sample Data

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

Project Name: Dagger Lake 6 State #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:41:57AM

SS15 - 0.5'

E307049-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Benzene	ND	0.0250	1	07/13/23	07/14/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/14/23	
Toluene	ND	0.0250	1	07/13/23	07/14/23	
o-Xylene	ND	0.0250	1	07/13/23	07/14/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/14/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		07/13/23	07/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/18/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328059
Chloride	ND	20.0	1	07/14/23	07/17/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 State #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:41:57AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2328055-BLK1)

Prepared: 07/13/23 Analyzed: 07/14/23

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	7.72		8.00		96.6	70-130			

LCS (2328055-BS1)

Prepared: 07/13/23 Analyzed: 07/14/23

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike (2328055-MS1)

Source: E307049-02

Prepared: 07/13/23 Analyzed: 07/14/23

Benzene	4.93	0.0250	5.00	ND	98.6	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133			
Toluene	4.94	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2328055-MSD1)

Source: E307049-02

Prepared: 07/13/23 Analyzed: 07/14/23

Benzene	5.07	0.0250	5.00	ND	101	54-133	2.83	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133	2.84	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	2.53	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131	2.53	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	2.71	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 State #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:41:57AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2328055-BLK1)

Prepared: 07/13/23 Analyzed: 07/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.8	70-130			

LCS (2328055-BS2)

Prepared: 07/13/23 Analyzed: 07/14/23

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

Matrix Spike (2328055-MS2)

Source: E307049-02

Prepared: 07/13/23 Analyzed: 07/14/23

Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	ND	82.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.8	70-130			

Matrix Spike Dup (2328055-MSD2)

Source: E307049-02

Prepared: 07/13/23 Analyzed: 07/14/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.0	70-130	3.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.73		8.00		84.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 State #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:41:57AM

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 (2329019-BLK1)

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	50-200			

LCS (2329019-BS1)

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	49.2		50.0		98.3	50-200			

Matrix Spike (2329019-MS1)

Source: E307049-15

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	48.8		50.0		97.7	50-200			

Matrix Spike Dup (2329019-MSD1)

Source: E307049-15

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	6.66	20	
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 State #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:41:57AM

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 (2328059-BLK1)					Prepared: 07/14/23 Analyzed: 07/17/23				
Chloride	ND	20.0							
LCS (2328059-BS1)					Prepared: 07/14/23 Analyzed: 07/17/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2328059-MS1)					Source: E307049-01		Prepared: 07/14/23 Analyzed: 07/17/23		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2328059-MSD1)					Source: E307049-01		Prepared: 07/14/23 Analyzed: 07/17/23		
Chloride	257	20.0	250	ND	103	80-120	0.372	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger Lake 6 State #002	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/26/23 10:41

- 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.



E307049 23052-0001 CM

Client: Matador Production Company					Bill To		Lab Use Only				TAT				EPA Program		
Project: Dagger Lake 6 State #002					Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address:		E307049		01058					x			
Address: 3122 National Parks Hwy					City, State, Zip		Analysis and Method								RCRA		
City, State, Zip Carlsbad, NM 88220					Phone:		TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						
Phone: 575-988-0055					Email:								BGDOC				
Email: agiovengo@ensolum.com														GDOC			
Report due by:							State										
							NM CO UT AZ TX										
							x										
							Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
1110	7/10/2023	S	1	SS01-0.5'	1									x			
955	7/11/2023	S	1	SS02-0.5'	2									x			
956	7/11/2023	S	1	SS03-0.5'	3									x			
1118	7/10/2023	S	1	SS04-0.5'	4									x			
1120	7/10/2023	S	1	SS05-0.5'	5									x			
1122	7/10/2023	S	1	SS06-0.5'	6									x			
959	7/11/2023	S	1	SS07-0.5'	7									x			
1126	7/10/2023	S	1	SS08-0.5'	8									x			
1128	7/10/2023	S	1	SS09-0.5'	9									x			
1150	7/10/2023	S	1	SS10-0.5'	10									x			

Additional Instructions: CC agiovengo@ensolum.com, cburton@ensolum.com, and rhayes@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: Ronni Hayes											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>[Signature]</i>	7/12/23	10:00	<i>Michelle Gonzalez</i>	7-12-23	1000	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>Michelle Gonzalez</i>	7-12-23	1715	<i>Allen MRSO</i>	7-12-23	1715						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>Allen MRSO</i>	7-12-23	2245	<i>Allen MRSO</i>	7/13/23	8:15	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



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Project Information

Chain of Custody

Client: Matador Production Company

Project: Dagger Lake 6 State #002

Project Manager: Ashley Gioveno

Address: 3122 National Parks Hwy

City, State, Zip Carlsbad, NM 88220

Phone: 575-988-0055

Email: agioveno@ensolum.com

Report due by:

Bill To

Attention: Matador Production Company

Address:

City, State, Zip

Phone:

Email:

E307049 CM

Lab Use Only

Lab WO#

~~E307049~~

Job Number

23052-0001

TAT

1D

2D

3D

Standard

EPA Program

CWA

SDWA

x

RCRA

Analysis and Method

TPH GRO/DRO/ORO by

8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

State

NM

CO

UT

AZ

TX

x

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
1200	7/10/2023	S	1	SS11-0.5'	11
1420	7/10/2023	S	1	SS12-0.5'	12
1428	7/10/2023	S	1	SS13-0.5'	13
1430	7/10/2023	S	1	SS14-0.5'	14
1425	7/10/2023	S	1	SS15-0.5'	15
1434	7/10/2023	S	1	SS16-0.5'	16
1438	7/10/2023	S	1	SS17-0.5'	17
1445	7/10/2023	S	1	SS18-0.5'	18
1443	7/10/2023	S	1	SS19-0.5'	19
1441	7/10/2023	S	1	SS20-0.5'	20

Additional Instructions: CC agioveno@ensolum.com, cburton@ensolum.com, and rhayes@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: Ronni Hayes

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
<i>[Signature]</i>	7-12-23	10:00	<i>Michelle Gungala</i>	7-12-23	10:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Michelle Gungala</i>	7-12-23	17:15	<i>Andrew Mess</i>	7-12-23	17:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Andrew Mess</i>	7-12-23	22:45	<i>Caithe Mar</i>	7-13-23	8:15

Lab Use Only

Received on ice: ☒ Y ☐ N

T1

T2

T3

AVG Temp °C 4

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 7/13/2023 12:09:25PM

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 Production Company	Date Received:	07/13/23 08:15	Work Order ID:	E307049
Phone:	(575) 988-0055	Date Logged In:	07/13/23 09:38	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	07/19/23 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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 2

E307049 23052-0001 CM

Client: Matador Production Company

Project: Dagger Lake 6 State #002

Project Manager: Ashley Giovengo

Address: 3122 National Parks Hwy

City, State, Zip Carlsbad, NM 88220

Phone: 575-988-0055

Email: agiovengo@ensolum.com

Report due by:

Bill To

Attention: Matador Production Company

Address:

City, State, Zip

Phone:

Email:

Lab Use Only

Lab WO#

E 307049 23052

Job Number

01058

TAT

1D

2D

3D

Standard

x

EPA Program

CWA

SDWA

RCRA

Analysis and Method

TPH GRO/DRO/ORO by

8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

State

NM

CO

UT

AZ

TX

x

Remarks

Client asked to
remove samples
#116-20
9/25/23 CM

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
1110	7/10/2023	S	1	SS01-0.5'	1
955	7/11/2023	S	1	SS02-0.5'	2
956	7/11/2023	S	1	SS03-0.5'	3
1118	7/10/2023	S	1	SS04-0.5'	4
1120	7/10/2023	S	1	SS05-0.5'	5
1122	7/10/2023	S	1	SS06-0.5'	6
959	7/11/2023	S	1	SS07-0.5'	7
1126	7/10/2023	S	1	SS08-0.5'	8
1128	7/10/2023	S	1	SS09-0.5'	9
1150	7/10/2023	S	1	SS10-0.5'	10

Additional Instructions: CC agiovengo@ensolum.com, cburton@ensolum.com, and rhayes@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: Ronni Hayes

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
<i>Ronni Hayes</i>	7/12/23	10:00	<i>Michelle Gungles</i>	7-12-23	1000
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Michelle Gungles</i>	7-12-23	1715	<i>Adrian MRSO</i>	7-12-23	1715
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Adrian MRSO</i>	7-12-23	2245	<i>Cathy Man</i>	7/13/23	8:15

Lab Use Only

Received on ice: ☒ Y ☐ N

T1

T2

T3

AVG Temp °C 4

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

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

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



Project Information

Chain of Custody

Page 2 of 2

Client: Matador Production Company

Project: Dagger Lake 6 State #002

Project Manager: Ashley Giovengo

Address: 3122 National Parks Hwy

City, State, Zip Carlsbad, NM 88220

Phone: 575-988-0055

Email: agiovengo@ensolum.com

Report due by:

Bill To

Attention: Matador Production Company

Address:

City, State, Zip

Phone:

Email:

Lab Use Only

Lab WO#

E307049

Job Number

23052-0001

TAT

1D

2D

3D

Standard

x

EPA Program

CWA

SDWA

RCRA

Analysis and Method

TPH GRO/DRO/ORO by

8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

State

NM

CO

UT

AZ

TX

x

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	TX	Remarks
1200	7/10/2023	S	1	SS11-0.5'	11						X		
1420	7/10/2023	S	1	SS12-0.5'	12						X		
1428	7/10/2023	S	1	SS13-0.5'	13						X		
1430	7/10/2023	S	1	SS14-0.5'	14						X		
1425	7/10/2023	S	1	SS15-0.5'	15						X		
1434	7/10/2023	S	1	SS16-0.5'	16						X		
1438	7/10/2023	S	1	SS17-0.5'	17						X		
1445	7/10/2023	S	1	SS18-0.5'	18						X		
1443	7/10/2023	S	1	SS19-0.5'	19						X		
1441	7/10/2023	S	1	SS20-0.5'	20						X		

Additional Instructions: CC agiovengo@ensolum.com, cburton@ensolum.com, and rhayes@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: Ronni Hayes

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
<i>[Signature]</i>	7-12-23	10:00	<i>Michelle Gonzales</i>	7-12-23	1000	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>Michelle Gonzales</i>	7-12-23	1715	<i>Andrew Messa</i>	7-12-23	1715	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<i>Andrew Messa</i>	7-12-23	2245	<i>Carla Man</i>	7-13-23	8.15	AVG Temp °C 4
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



envirotec

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger Lake 6 #002

Work Order: E309033

Job Number: 23052-0001

Received: 9/6/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/23

5796 U.S. Hwy 64
Farmington, NM 87401

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

Date Reported: 9/26/23



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

Project Name: Dagger Lake 6 #002
Workorder: E309033
Date Received: 9/6/2023 5:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/6/2023 5:35:00AM, under the Project Name: Dagger Lake 6 #002.

The analytical test results summarized in this report with the Project Name: Dagger Lake 6 #002 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
09/26/23 10:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 1'	E309033-01A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS03 - 1'	E309033-02A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS05 - 1'	E309033-03A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS07 - 1'	E309033-04A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS09 - 1'	E309033-05A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS11 - 1'	E309033-06A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS13 - 1'	E309033-07A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS14 - 1'	E309033-08A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS15 - 1'	E309033-09A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.
SS18 - 1'	E309033-10A	Soil	09/01/23	09/06/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS01 - 1'

E309033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene	119 %	70-130		09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		09/07/23	09/08/23	
Surrogate: Toluene-d8	112 %	70-130		09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene	119 %	70-130		09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		09/07/23	09/08/23	
Surrogate: Toluene-d8	112 %	70-130		09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane	94.8 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS03 - 1'

E309033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		110 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		110 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		88.4 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS05 - 1'

E309033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		121 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		121 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		93.0 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS07 - 1'

E309033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		96.5 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	29.9	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS09 - 1'

E309033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		93.8 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS11 - 1'

E309033-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		96.5 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS13 - 1'

E309033-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		121 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		121 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		94.4 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS14 - 1'

E309033-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		112 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		96.1 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



Sample Data

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

Project Name: Dagger Lake 6 #002
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/26/2023 10:47:20AM

SS15 - 1'

E309033-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Benzene	ND	0.0250	1	09/07/23	09/08/23	
Ethylbenzene	ND	0.0250	1	09/07/23	09/08/23	
Toluene	ND	0.0250	1	09/07/23	09/08/23	
o-Xylene	ND	0.0250	1	09/07/23	09/08/23	
p,m-Xylene	ND	0.0500	1	09/07/23	09/08/23	
Total Xylenes	ND	0.0250	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/23	09/08/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/07/23	09/08/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/07/23	09/08/23	
Surrogate: Toluene-d8		111 %	70-130	09/07/23	09/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337001
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane		101 %	50-200	09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336077
Chloride	ND	20.0	1	09/08/23	09/09/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:47:20AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2336070-BLK1)

Prepared: 09/07/23 Analyzed: 09/08/23

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	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

LCS (2336070-BS1)

Prepared: 09/07/23 Analyzed: 09/08/23

Benzene	2.43	0.0250	2.50		97.2	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.57	0.0250	2.50		103	70-130			
o-Xylene	2.68	0.0250	2.50		107	70-130			
p,m-Xylene	5.30	0.0500	5.00		106	70-130			
Total Xylenes	7.98	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.611		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.567		0.500		113	70-130			

Matrix Spike (2336070-MS1)

Source: E309033-01

Prepared: 09/07/23 Analyzed: 09/08/23

Benzene	2.48	0.0250	2.50	ND	99.3	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.63	0.0250	2.50	ND	105	48-130			
o-Xylene	2.76	0.0250	2.50	ND	110	43-135			
p,m-Xylene	5.53	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.29	0.0250	7.50	ND	111	43-135			
Surrogate: Bromofluorobenzene	0.609		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

Matrix Spike Dup (2336070-MSD1)

Source: E309033-01

Prepared: 09/07/23 Analyzed: 09/08/23

Benzene	2.42	0.0250	2.50	ND	97.0	48-131	2.38	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	1.90	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	2.19	24	
o-Xylene	2.69	0.0250	2.50	ND	108	43-135	2.55	27	
p,m-Xylene	5.37	0.0500	5.00	ND	107	43-135	2.85	27	
Total Xylenes	8.06	0.0250	7.50	ND	108	43-135	2.75	27	
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:47:20AM

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 (2336070-BLK1)

Prepared: 09/07/23 Analyzed: 09/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

LCS (2336070-BS2)

Prepared: 09/07/23 Analyzed: 09/08/23

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.7	70-130			
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike (2336070-MS2)

Source: E309033-01

Prepared: 09/07/23 Analyzed: 09/08/23

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130			
Surrogate: Bromofluorobenzene	0.618		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.569		0.500		114	70-130			

Matrix Spike Dup (2336070-MSD2)

Source: E309033-01

Prepared: 09/07/23 Analyzed: 09/08/23

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.5	70-130	7.73	20	
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.569		0.500		114	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger Lake 6 #002	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2023 10:47:20AM

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 (2337001-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			

LCS (2337001-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

Matrix Spike (2337001-MS1)					Source: E309008-09		Prepared: 09/11/23 Analyzed: 09/12/23		
Diesel Range Organics (C10-C28)	9290	250	250	8700	238	38-132			M4
Surrogate: n-Nonane	45.5		50.0		91.1	50-200			

Matrix Spike Dup (2337001-MSD1)					Source: E309008-09		Prepared: 09/11/23 Analyzed: 09/12/23		
Diesel Range Organics (C10-C28)	8570	250	250	8700	NR	38-132	8.06	20	M4
Surrogate: n-Nonane	49.7		50.0		99.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger Lake 6 #002 Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/26/2023 10:47:20AM
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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 (2336077-BLK1)					Prepared: 09/08/23 Analyzed: 09/09/23				
Chloride	ND	20.0							
LCS (2336077-BS1)					Prepared: 09/08/23 Analyzed: 09/09/23				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2336077-MS1)					Source: E309033-01		Prepared: 09/08/23 Analyzed: 09/09/23		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2336077-MSD1)					Source: E309033-01		Prepared: 09/08/23 Analyzed: 09/09/23		
Chloride	255	20.0	250	ND	102	80-120	0.707	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger Lake 6 #002	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/26/23 10:47

- 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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program					
Project: Dagger Lake 6 #002		Attention: Matador Production Company		Lab WO# E309033		Job Number 23052-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file									x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398											
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com											
Email: agiovengo@ensolum.com													
Report due by:													

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
10:24	9/1/2023	Soil	1 Jar	SS01 - 1'	1						x		
10:27	9/1/2023	Soil	1 Jar	SS03 - 1'	2						x		
11:30	9/1/2023	Soil	1 Jar	SS05 - 1'	3						x		
11:26	9/1/2023	Soil	1 Jar	SS07 - 1'	4						x		
11:33	9/1/2023	Soil	1 Jar	SS09 - 1'	5						x		
11:39	9/1/2023	Soil	1 Jar	SS11 - 1'	6						x		
10:21	9/1/2023	Soil	1 Jar	SS13 - 1'	7						x		
12:44	9/1/2023	Soil	1 Jar	SS14 - 1'	8						x		
11:36	9/1/2023	Soil	1 Jar	SS15 - 1'	9						x		
12:58	9/1/2023	Soil	1 Jar	SS18 - 1'	10						x		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@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) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>					
Date 9-5-23		Time 11:00		Date 9-5-23		Time 11:00		Lab Use Only			
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>					
Date 9-5-23		Time 1800		Date 9-5-23		Time 1800		Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N			
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>					
Date 9-6-23		Time 2430		Date 9/6/23		Time 5:35		T1 _____ T2 _____ T3 _____			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											

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



envirotech

Envirotech Analytical Laboratory

Printed: 9/6/2023 7:45:03AM

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:	09/06/23 05:35	Work Order ID:	E309033
Phone:	(972) 371-5200	Date Logged In:	09/05/23 16:10	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/12/23 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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program	
Project: Dagger Lake 6 #002		Attention: Matador Production Company		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Ashley Giovengo		Address: on file		Job Number		Standard			
Address: 3122 National Parks Hwy		City, State, Zip:		E309033 23052-0001		x			
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		Analysis and Method				RCRA	
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com						State	
Email: agiovengo@ensolum.com								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 NM	GDOC TX	Remarks
10:24	9/1/2023	Soil	1 Jar	SS01 - 1'	1						X		Client asked to remove Sample SS18-1' 9/25/23 CM
10:27	9/1/2023	Soil	1 Jar	SS03 - 1'	2						X		
11:30	9/1/2023	Soil	1 Jar	SS05 - 1'	3						X		
11:26	9/1/2023	Soil	1 Jar	SS07 - 1'	4						X		
11:33	9/1/2023	Soil	1 Jar	SS09 - 1'	5						X		
11:39	9/1/2023	Soil	1 Jar	SS11 - 1'	6						X		
10:21	9/1/2023	Soil	1 Jar	SS13 - 1'	7						X		
12:44	9/1/2023	Soil	1 Jar	SS14 - 1'	8						X		
11:36	9/1/2023	Soil	1 Jar	SS15 - 1'	9						X		
12:58	9/1/2023	Soil	1 Jar	SS18 - 1'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@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					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N			
<i>Michelle Gumpf</i>		9-5-23	11:00	<i>Michelle Gumpf</i>		9-5-23	11:00				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
<i>Michelle Gumpf</i>		9-5-23	1800	<i>Andrew Motta</i>		9-5-23	1800				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
<i>Andrew Motta</i>		9-6-23	2430	<i>Carla Man</i>		9/6/23	5:35	4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



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 273014

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 273014
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical documentation located under 1RP-2616 includes a final C-141 approved on 11/02/2010. Closure approved.	10/6/2023