



July 29, 2024

New Mexico Energy Minerals and Natural Resources Department

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Deferral Request
Leslie East Tank Battery
Incident Number nAPP2406837717
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document assessment and soil sampling activities at the Leslie East Tank Battery (Site) in Unit O, Section 17, Township 25 South, Range 35 East, in Lea County, New Mexico (Figure 1). The Site (32.12455°, -103.38563°) is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2406837717 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On March 7, 2024, a tank overflowed, resulting in the release of approximately 130 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 130 bbls of released produced water were recovered from within the lined containment.

Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via the web portal on March 8, 2024. The release was assigned Incident Number nAPP2406837717. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD office on April 2, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was deemed insufficient and delineation beneath the lined containment would be required.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320704103222301, located approximately 0.74 miles east of the Site. The well had a reported depth to groundwater of 225 feet below ground surface (bgs). There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that would suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1,243 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On March 22, 2024, Ensolum personnel visited the Site to evaluate the release extent and conduct Site assessment activities. Four assessment soil samples (SS01 through SS04) were collected around the documented release extent at ground surface. The soil samples were field screened for TPH utilizing a PetroFLAG[®] Hydrocarbon Test Kit and chloride using MOHR method titration. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

On April 5, 2024, Ensolum personnel returned to the Site to conduct a liner integrity inspection. During the inspection the liner was found to be insufficient, and two holes were identified on the east side of the lined containment. Based on the visual findings from the liner integrity inspection, it was determined that vertical delineation sampling beneath the lined containment would be required.

DELINEATION SAMPLING ACTIVITIES

Beginning on April 9, 2024, Ensolum personnel were onsite, to conduct delineation sampling activities and to assess for the presence or absence of impacts to soil beneath the containment liner. The liner

was found to be insufficient during the April 2024 inspection and as such, two boreholes (BH01 and BH02) were advanced in the general vicinity of the damaged liner. Boreholes were advanced via hand auger to a terminal depth of 1-foot bgs, and field screened for TPH and chlorides. Ensolum personnel hit refusal at a depth of 1-foot bgs due to the presence of a rock layer.

On July 5, 2024, Ensolum personnel returned to the Site to complete vertical sampling in boreholes BH01 and BH02 via mechanical means. The boreholes were advanced via a 41-millimeter (mm) Shaw Backpack Portable Rock Coring Drill Kit to a depth of 2 feet bgs in BH01 and 3 feet bgs in BH02. Discrete soil samples were field screened for TPH and chlorides and the soil samples were handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected at each foot from BH01 to a depth of 2 feet bgs and from ground surface, 1-foot bgs, and 3 feet bgs from BH02 and submitted to the laboratory for analysis.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples (SS01 through SS04), collected at ground surface and around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Laboratory analytical results for the vertical delineation soil samples collected from boreholes (BH01 and BH02), indicated TPH and chloride concentrations exceeded the Site Closure Criteria at depths ranging from ground surface to 1-foot bgs, directly beneath the tear in the liner. Laboratory analytical results indicated all COCs were in compliance with the Site Closure Criteria at 2 feet bgs in borehole BH01 and 3 feet bgs in borehole BH02.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, which is delineated vertically by delineation soil samples (BH01 and BH02), collected at depths ranging from ground surface to 3 feet bgs, and laterally by assessment soil samples (SS01 through SS04), collected at the ground surface. A maximum of 466 cubic yards of TPH and chloride impacted soil remains in place beneath the liner assuming a 3-foot depth based on the vertical delineation soil samples listed above (Figure 3). Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 200 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by Matador and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2406837717 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human

Leslie East Tank Battery



health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix E.

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

Sincerely,
Ensolum, LLC

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

Ashely Giovengo
Senior Scientist

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

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

cc: Clinton Talley, Matador
Jason Touchet, Matador

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Reference Wells
Appendix B	Photographic Log
Appendix C	Lithographic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence



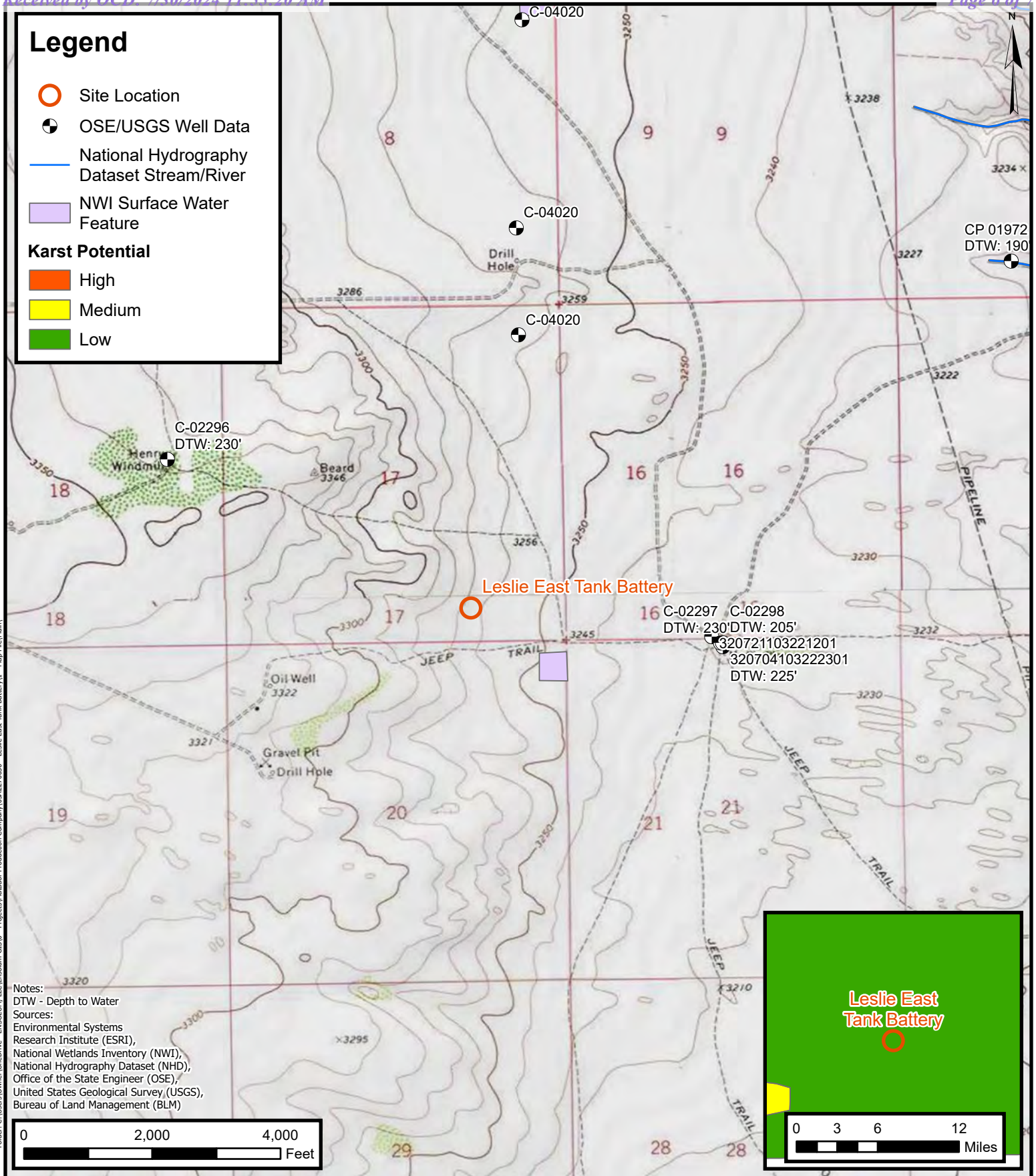
FIGURES

Legend

- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River
- NWI Surface Water Feature

Karst Potential

- High
- Medium
- Low



Notes:
DTW - Depth to Water
Sources:
Environmental Systems
Research Institute (ESRI),
National Wetlands Inventory (NWI),
National Hydrography Dataset (NHD),
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM)

0 2,000 4,000
Feet

0 3 6 12
Miles



Site Receptor Map

Matador Production Company
Leslie East Tank Battery
Incident Number: nAPP2406837717
Unit O, Section 17, T 25S, R 35E
Lea County, New Mexico

FIGURE

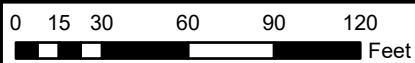
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Matador Production Company
Leslie East Tank Battery
Incident Number: nAPP2406837717
Unit O, Section 7, T 25S, R 35E
Lea County, New Mexico

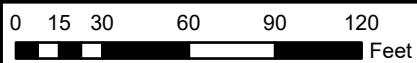
FIGURE
2

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Deferral Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Reclamation Soil Sample Locations

Matador Production Company
Leslie East Tank Battery
Incident Number: nAPP2406837717
Unit O, Section 7, T 25S, R 35E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Leslie East Tank Battery
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	3/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	485
SS02	3/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	347
SS03	3/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS04	3/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	90.3
BH01	4/9/2024	0	<0.0250	0.0677	<20.0	153	<50.0	153	153	17,800
BH01	4/9/2024	1	<0.0250	0.0563	<20.0	87.4	<50.0	87.4	87.4	7,610
BH01	7/15/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	142
BH02	4/9/2024	0	<0.0250	0.0596	<20.0	710	189	710	899	11,300
BH02	4/9/2024	1	<0.0250	<0.0250	<20.0	30.4	<50.0	30.4	30.4	3,660
BH02	7/15/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record

Lea County, New Mexico
Latitude 32°07'21.8", Longitude 103°22'22.7" NAD83
Land-surface elevation 3,240.00 feet above NGVD29
The depth of the well is 180 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.








Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	 Water-level date-time accuracy	 Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	 Status	 Method of measurement	 Measuring agency	 Source of measurement	 Water-level approval status
1953-04-02		D	62610		3066.74	NGVD29	1	Z			A
1953-04-02		D	62611		3068.24	NAVD88	1	Z			A
1953-04-02		D	72019	173.26			1	Z			A
1970-12-09		D	62610		3073.62	NGVD29	1	Z			A
1970-12-09		D	62611		3075.12	NAVD88	1	Z			A
1970-12-09		D	72019	166.38			1	Z			A
1976-01-09		D	62610		3075.46	NGVD29	1	Z			A
1976-01-09		D	62611		3076.96	NAVD88	1	Z			A
1976-01-09		D	72019	164.54			1	Z			A
2013-01-16	17:15 UTC	m	62610		3014.32	NGVD29	1	S	USGS	S	A
2013-01-16	17:15 UTC	m	62611		3015.82	NAVD88	1	S	USGS	S	A
2013-01-16	17:15 UTC	m	72019	225.68			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
<i>Released to Imaging: 9/6/2024 2:49:15 PM</i> Parameter code	62610	Groundwater level above NGVD 1929, feet



APPENDIX B

Photographic Log



Photographic Log

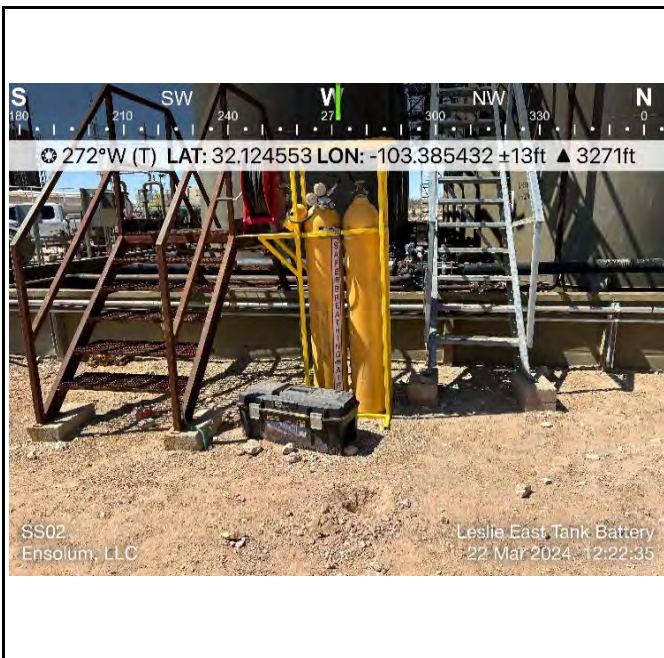
Matador Production Company
Leslie East Tank Battery
nAPP2406837717



Photograph 1 Date: 3/22/24
Description: Site signage
View: West



Photograph 2 Date: 3/22/24
Description: Containment
View: East



Photograph 3 Date: 3/22/24
Description: Delineation
View: West



Photograph 4 Date: 3/22/24
Description: Delineation
View: South



Photographic Log

Matador Production Company
Leslie East Tank Battery
nAPP2406837717



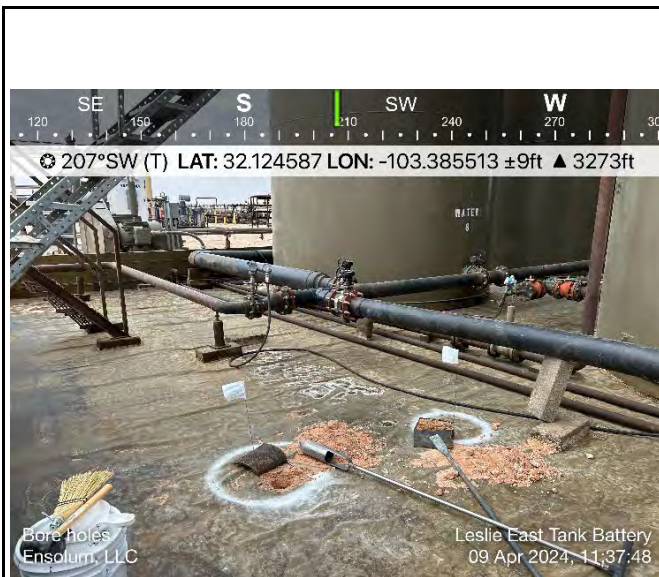
Photograph 5
Description: Liner inspection
View: West

Date: 4/5/24



Photograph 6
Description: Liner inspection
View: East

Date: 4/5/24



Photograph 7
Description: Delineation
View: South

Date: 4/9/24



Photograph 8
Description: Repair liner
View: South

Date: 4/9/24



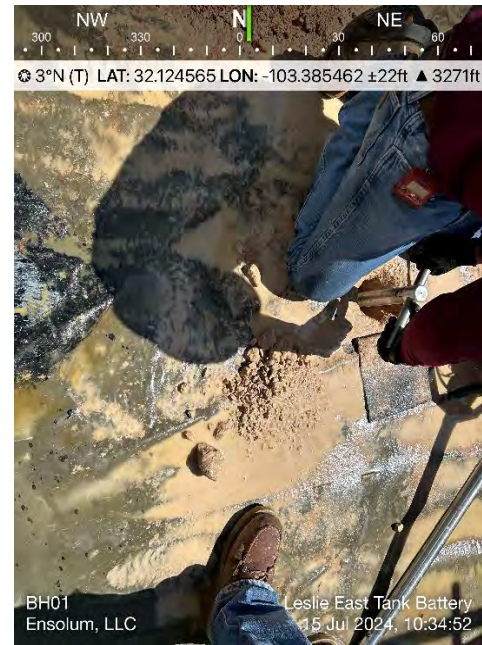
Photographic Log

Matador Production Company
Leslie East Tank Battery
nAPP2406837717



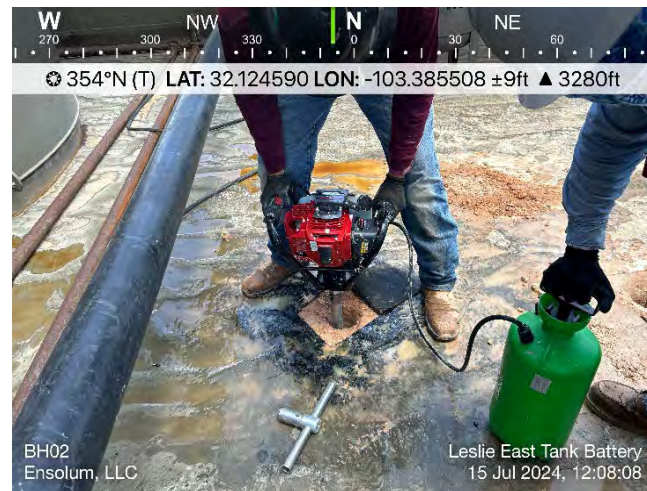
Photograph 9
Description: Delineation
View: Southeast

Date: 7/15/24



Photograph 10
Description: Delineation
View: North

Date: 7/15/24



Photograph 11
Description: Delineation
View: North

Date: 7/15/24




Photograph 12
Description: Repair liner
View: South


Date: 7/15/24





APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM					Sample Name: BH01		Date: 4/9/24	
					Site Name: Leslie East Tank Battery			
					Incident Number: nAPP2406837717			
					Job Number: 03A2270036			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.124574, -103.385497					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	17,320		N	BH01	0	0	CCHE	Caliche, No staining, Moist
M	6,820		N	BH01	1	1	CCHE	Caliche, No staining, Moist
Total Depth @ 1 ft bgs								

					Sample Name: BH02		Date: 4/9/24	
					Site Name: Leslie East Tank Battery			
					Incident Number: nAPP2406837717			
					Job Number: 03A2270036			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.124578, -103.385485					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	14,677		N	BH02	0	0	CCHE	Caliche, No staining, Moist
M	3,612		N	BH02	1	1		
Total Depth @ 1 ft bgs								

								Sample Name: BH01		Date: 7/15/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Leslie East Tank Battery			
								Incident Number: nAPP2406837717			
								Job Number: 03A2270036			
Coordinates: 32.124574, -103.385497								Logged By: Israel Estrella		Method: Back Pack Drill	
								Hole Diameter: 1.5"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		Very dense, no staining, large rock, wet, no plasticity, non cohesive, caliche.			
						1					
W	358	77	N	BH02	2	2	CCHE				
Total depth @ 2 ft bgs											

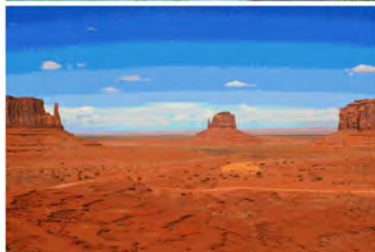
								Sample Name: BH02		Date: 7/15/24	
								Site Name: Leslie East Tank Battery			
								Incident Number: nAPP2406837717			
								Job Number: 03A2270036			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Back Pack Drill	
Coordinates: 32.124578, -103.385485								Hole Diameter: 1.5"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
						1					
W	840		N	BH02	2	2	CCHE	Very dense, no staining, large rock, wet, no plasticity, non cohesive, caliche.			
W	<164	58	N	BH02	3	3					
Total Depth @ 3 ft bgs											



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: Leslie East Tank Battery

Work Order: E403247

Job Number: 23003-C-0001

Received: 3/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/1/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/1/24

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



Project Name: Leslie East Tank Battery
Workorder: E403247
Date Received: 3/26/2024 10:55:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/26/2024 10:55:00AM, under the Project Name: Leslie East Tank Battery.

The analytical test results summarized in this report with the Project Name: Leslie East Tank Battery 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01-0'	5
SS02-0'	6
SS03-0'	7
SS04 -0'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/01/24 09:58
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E403247-01A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
SS02-0'	E403247-02A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
SS03-0'	E403247-03A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
SS04 -0'	E403247-04A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/1/2024 9:58:38AM
---	--	---------------------------------

SS01-0'
E403247-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	77.9 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	485	20.0	1	03/26/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/1/2024 9:58:38AM
---	--	---------------------------------

SS02-0'

E403247-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	81.2 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	347	20.0	1	03/26/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/1/2024 9:58:38AM
---	--	---------------------------------

SS03-0'

E403247-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	78.5 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	ND	20.0	1	03/26/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/1/2024 9:58:38AM
---	--	--

SS04 -0'

E403247-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Benzene	ND	0.0250	1	03/26/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/27/24	
Toluene	ND	0.0250	1	03/26/24	03/27/24	
o-Xylene	ND	0.0250	1	03/26/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.0 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.8 %	70-130		03/26/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
<i>Surrogate: n-Nonane</i>	80.7 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413057	
Chloride	90.3	20.0	1	03/26/24	03/27/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/1/2024 9:58:38AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2413062-BLK1)Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

LCS (2413062-BS1)Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	5.00	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	4.98	0.0250	5.00		99.7	70-130			
o-Xylene	4.91	0.0250	5.00		98.1	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike (2413062-MS1)Source: E403239-04Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.2	70-130			

Matrix Spike Dup (2413062-MSD1)Source: E403239-04Prepared: 03/26/24 Analyzed: 03/26/24

Benzene	4.92	0.0250	5.00	ND	98.3	54-133	2.20	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	2.14	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	2.20	20	
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131	2.01	20	
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131	1.99	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	63-131	2.00	20	
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/1/2024 9:58:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2413062-BLK1) Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

LCS (2413062-BS2) Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

Matrix Spike (2413062-MS2) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.4	70-130			

Matrix Spike Dup (2413062-MSD2) Source: E403239-04 Prepared: 03/26/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	0.707	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/1/2024 9:58:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

Blank (2413063-BLK1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			

LCS (2413063-BS1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Diesel Range Organics (C10-C28)	248	25.0	250		99.1	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			

Matrix Spike (2413063-MS1)					Source: E403251-01		Prepared: 03/27/24 Analyzed: 03/27/24		
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.8	38-132			
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			

Matrix Spike Dup (2413063-MSD1)					Source: E403251-01		Prepared: 03/27/24 Analyzed: 03/27/24		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.478	20	
Surrogate: n-Nonane	39.9		50.0		79.9	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/1/2024 9:58:38AM

Anions by EPA 300.0/9056A

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 (2413057-BLK1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413057-BS1)					Prepared: 03/26/24 Analyzed: 03/27/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2413057-MS1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1240	40.0	250	1040	80.9	80-120			
Matrix Spike Dup (2413057-MSD1)					Source: E403237-04		Prepared: 03/26/24 Analyzed: 03/27/24		
Chloride	1220	40.0	250	1040	73.4	80-120	1.52	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/01/24 09:58

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Matador Production Company				Bill To				Lab Use Only				TAT				EPA Program				
Project: Leslie East Tank Battery				Attention: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo				Address: on file				E403247		23003-C-0001					x					
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method											RCRA	
City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055				TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055				Email: agiovengo@ensolum.com												NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com				Report due by:												x				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks				
11:51	3/22/2024	Soil	1	SS01 - 0'	1									X						
10:54	3/22/2024	Soil	1	SS02 - 0'	2									X						
11:36	3/22/2024	Soil	1	SS03 - 0'	3									X						
11:00	3/22/2024	Soil	1	SS04 - 0'	4									X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												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												
		3/25/24	8:35			3-25-24	1040	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												
		3-25-24	1420			3-25-24	1630													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
		3-25-24	2015			3/26/24	1055	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 Analytical Laboratory

Printed: 3/26/2024 4:07:38PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/26/24 10:55	Work Order ID:	E403247
Phone:	(972) 371-5200	Date Logged In:	03/26/24 10:55	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	04/01/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Leslie East Tank Battery

Work Order: E404088

Job Number: 23003-0001

Received: 4/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/17/24



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

Project Name: Leslie East Tank Battery
Workorder: E404088
Date Received: 4/11/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2024 8:00:00AM, under the Project Name: Leslie East Tank Battery.

The analytical test results summarized in this report with the Project Name: Leslie East Tank Battery 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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

Sample Summary

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/17/24 15:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E404088-01A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
BH01-1'	E404088-02A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
BH02-0'	E404088-03A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
BH02-1'	E404088-04A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/17/2024 3:46:57PM
---	--	----------------------------------

BH01-0'
E404088-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/11/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/16/24	
Toluene	ND	0.0250	1	04/11/24	04/16/24	
o-Xylene	0.0677	0.0250	1	04/11/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/16/24	
Total Xylenes	0.0677	0.0250	1	04/11/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416012	
Diesel Range Organics (C10-C28)	153	25.0	1	04/15/24	04/16/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/24	04/16/24	
Surrogate: n-Nonane	118 %	50-200		04/15/24	04/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	17800	400	20	04/11/24	04/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/17/2024 3:46:57PM
---	--	----------------------------------

BH01-1'

E404088-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/11/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/16/24	
Toluene	ND	0.0250	1	04/11/24	04/16/24	
o-Xylene	0.0563	0.0250	1	04/11/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/16/24	
Total Xylenes	0.0563	0.0250	1	04/11/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416012	
Diesel Range Organics (C10-C28)	87.4	25.0	1	04/15/24	04/16/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/24	04/16/24	
Surrogate: n-Nonane	118 %	50-200		04/15/24	04/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	7610	200	10	04/11/24	04/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/17/2024 3:46:57PM
---	--	----------------------------------

BH02-0'

E404088-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/11/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/16/24	
Toluene	ND	0.0250	1	04/11/24	04/16/24	
o-Xylene	0.596	0.0250	1	04/11/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/16/24	
Total Xylenes	0.596	0.0250	1	04/11/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416012	
Diesel Range Organics (C10-C28)	710	25.0	1	04/15/24	04/16/24	T17
Oil Range Organics (C28-C36)	189	50.0	1	04/15/24	04/16/24	T17
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		04/15/24	04/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	11300	200	10	04/11/24	04/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/17/2024 3:46:57PM
---	--	----------------------------------

BH02-1'

E404088-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Benzene	ND	0.0250	1	04/11/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/16/24	
Toluene	ND	0.0250	1	04/11/24	04/16/24	
o-Xylene	ND	0.0250	1	04/11/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/16/24	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2415039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		04/11/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416012	
Diesel Range Organics (C10-C28)	30.4	25.0	1	04/15/24	04/16/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/24	04/16/24	
Surrogate: n-Nonane	113 %	50-200		04/15/24	04/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2415048	
Chloride	3660	40.0	2	04/11/24	04/13/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/17/2024 3:46:57PM

Volatile Organics by EPA 8021B

Analyst: EG

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

Blank (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			

LCS (2415039-BS1) Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.51	0.0250	5.00		90.2	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	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	7.44		8.00		92.9	70-130			

Matrix Spike (2415039-MS1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.56	0.0250	5.00	ND	91.2	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike Dup (2415039-MSD1) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Benzene	4.58	0.0250	5.00	ND	91.6	54-133	0.465	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	0.694	20	
Toluene	4.91	0.0250	5.00	ND	98.3	61-130	0.632	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131	0.762	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.690	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.714	20	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/17/2024 3:46:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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

Blank (2415039-BLK1) Prepared: 04/10/24 Analyzed: 04/11/24

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

LCS (2415039-BS2) Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2415039-MS2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2415039-MSD2) Source: E404077-04 Prepared: 04/10/24 Analyzed: 04/11/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	0.185	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/17/2024 3:46:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

Blank (2416012-BLK1)					Prepared: 04/15/24 Analyzed: 04/15/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.2		50.0		118	50-200			

LCS (2416012-BS1)					Prepared: 04/15/24 Analyzed: 04/16/24				
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike (2416012-MS1)					Source: E404074-02		Prepared: 04/15/24 Analyzed: 04/16/24		
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	59.0		50.0		118	50-200			

Matrix Spike Dup (2416012-MSD1)					Source: E404074-02		Prepared: 04/15/24 Analyzed: 04/16/24		
Diesel Range Organics (C10-C28)	311	25.0	250	ND	124	38-132	1.20	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/17/2024 3:46:57PM

Anions by EPA 300.0/9056A

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2415048-BLK1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	ND	20.0							
LCS (2415048-BS1)					Prepared: 04/11/24 Analyzed: 04/12/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2415048-MS1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18900	400	250	17600	524	80-120			M4
Matrix Spike Dup (2415048-MSD1)					Source: E404076-01		Prepared: 04/11/24 Analyzed: 04/12/24		
Chloride	18800	400	250	17600	468	80-120	0.750	20	M4

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/17/24 15:46

- 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.
- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Matador Production Company				Bill To				Lab Use Only				TAT				EPA Program				
Project: Leslie East Tank Battery				Attention: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo				Address: on file				E 404088		23003-0001					x					
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method												RCRA
City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055				TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055				Email: agiovengo@ensolum.com												NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com				Report due by:												x				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks			
10:43	4/9/2024	Soil	1	BH01 - 0'	1									X						
10:53	4/9/2024	Soil	1	BH01 - 1'	2									X						
10:54	4/9/2024	Soil	1	BH02 - 0'	3									X						
10:59	4/9/2024	Soil	1	BH02 - 1'	4									X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												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												
		4/10/24	9:45			4-10-24	0945	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												
		4-10-24	1610			4-10-24	1630													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
		4-10-24	2230			4/11/24	0800	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 Analytical Laboratory

Printed: 4/15/2024 12:46:57PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	04/11/24 08:00	Work Order ID:	E404088
Phone:	(972) 371-5200	Date Logged In:	04/10/24 16:19	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	04/17/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Leslie East Tank Battery

Work Order: E407130

Job Number: 23003-0002

Received: 7/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/22/24

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



Project Name: Leslie East Tank Battery
Workorder: E407130
Date Received: 7/17/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2024 6:00:00AM, under the Project Name: Leslie East Tank Battery.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/22/24 09:16
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-2'	E407130-01A	Soil	07/16/24	07/17/24	Glass Jar, 2 oz.
BH02-3'	E407130-02A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/22/2024 9:16:53AM
---	--	----------------------------------

BH01-2'

E407130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane	89.4 %	50-200		07/17/24	07/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2429051	
Chloride	142	20.0	1	07/17/24	07/17/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Leslie East Tank Battery Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/22/2024 9:16:53AM
---	--	----------------------------------

BH02-3'

E407130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2429049	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/18/24	
Surrogate: n-Nonane	92.6 %	50-200		07/17/24	07/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2429051	
Chloride	ND	20.0	1	07/17/24	07/17/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2024 9:16:53AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2429048-BLK1)

Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			

LCS (2429048-BS1)

Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS Dup (2429048-BSD1)

Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	5.25	0.0250	5.00		105	70-130	1.38	20	
Ethylbenzene	4.91	0.0250	5.00		98.3	70-130	1.18	20	
Toluene	5.18	0.0250	5.00		104	70-130	1.25	20	
o-Xylene	5.06	0.0250	5.00		101	70-130	1.08	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	1.10	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	1.09	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2024 9:16:53AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2429048-BLK1) Prepared: 07/16/24 Analyzed: 07/17/24

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

LCS (2429048-BS2) Prepared: 07/16/24 Analyzed: 07/17/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

LCS Dup (2429048-BSD2) Prepared: 07/16/24 Analyzed: 07/17/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130	1.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2024 9:16:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

Blank (2429049-BLK1) Prepared: 07/17/24 Analyzed: 07/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2429049-BS1) Prepared: 07/17/24 Analyzed: 07/17/24

Diesel Range Organics (C10-C28)	235	25.0	250		93.8	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike (2429049-MS1) Source: E407129-02 Prepared: 07/17/24 Analyzed: 07/17/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike Dup (2429049-MSD1) Source: E407129-02 Prepared: 07/17/24 Analyzed: 07/17/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.353	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Leslie East Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2024 9:16:53AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2429051-BLK1)					Prepared: 07/17/24 Analyzed: 07/17/24				
Chloride	ND	20.0							
LCS (2429051-BS1)					Prepared: 07/17/24 Analyzed: 07/17/24				
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2429051-MS1)					Source: E407128-01		Prepared: 07/17/24 Analyzed: 07/17/24		
Chloride	358	20.0	250	100	103	80-120			
Matrix Spike Dup (2429051-MSD1)					Source: E407128-01		Prepared: 07/17/24 Analyzed: 07/17/24		
Chloride	356	20.0	250	100	102	80-120	0.563	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:	Leslie East Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/22/24 09:16

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

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

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



Page 1 of 1



envirotech

Envirotech Analytical Laboratory

Printed: 7/17/2024 10:09:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/17/24 06:00	Work Order ID:	E407130
Phone:	(972) 371-5200	Date Logged In:	07/16/24 15:28	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	07/23/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
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: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Correspondence

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

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

QUESTIONS

Action 329137

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 329137
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406837717
Incident Name	NAPP2406837717 LESLIE EAST TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202573571] Leslie East Facility Tank Battery

Location of Release Source	
Site Name	Leslie East Tank Battery
Date Release Discovered	03/07/2024
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	4,100
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	04/05/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.12455 -103.38563

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 329137

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 329137
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	4/2/2024

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [clinton.talley@matadorresources.com](#); [jason.touchet@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Israel Estrella](#); [Brandon Deal](#)
Subject: Re: [EXTERNAL] Extension Request - Leslie East Tank Battery - Incident Number nAPP2406837717
Date: Monday, June 3, 2024 1:18:21 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-hqfzkzkb.png](#)

Some people who received this message don't often get email from nelson.velez@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good afternoon Ashley,

Your 90-day time extension request is approved. Remediation Due date has been updated to September 3, 2024.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, May 30, 2024 9:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; clinton.talley@matadorresources.com

<clinton.talley@matadorresources.com>; Jason Touchet <jason.touchet@matadorresources.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>; Brandon Deal <bdeal@ensolum.com>
Subject: [EXTERNAL] Extension Request - Leslie East Tank Battery - Incident Number nAPP2406837717

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of June 05, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Leslie East Tank Battery, Site (Incident Number nAPP2406837717). The release occurred on March 07, 2024, and approximately 130 barrels (bbls) of produced water was released inside the lined secondary containment; 130 bbls of produced water was recovered. A liner integrity inspection was completed at the Site on April 05, 2024, and two holes were identified on the East side of the lined containment. Ensolum personnel returned to the Site on April 09, 2024, to complete vertical delineation sampling beneath the holes in the containment liner via hand auger however, Ensolum personnel hit refusal at 1-foot bgs in both boreholes. In order to complete vertical delineation sampling in accordance with the strictest Closure Criteria per NMOCD Table I, Ensolum personnel will need to return to the Site to advance the boreholes with either a backpack drill or with heavy mechanical equipment. Matador respectfully requests a 90-day extension until September 03, 2024, to complete vertical delineation sampling beneath the containment liner. Matador will submit a remediation work plan or closure report following delineation sampling efforts. This release remained entirely on-pad and did not impact any sensitive Site receptors.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

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

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

QUESTIONS

Action 368350

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368350
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406837717
Incident Name	NAPP2406837717 LESLIE EAST TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2202573571] Leslie East Facility Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LESLIE EAST TANK BATTERY
Date Release Discovered	03/07/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 130 BBL Recovered: 130 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 368350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	368350
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

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

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/30/2024
--	--

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 368350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	368350
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	17800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	899
GRO+DRO	(EPA SW-846 Method 8015M)	710
BTEX	(EPA SW-846 Method 8021B or 8260B)	1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/01/2070
On what date will (or did) the final sampling or liner inspection occur	04/05/2024
On what date will (or was) the remediation complete(d)	01/01/2070
What is the estimated surface area (in square feet) that will be reclaimed	4128
What is the estimated volume (in cubic yards) that will be reclaimed	466
What is the estimated surface area (in square feet) that will be remediated	4128
What is the estimated volume (in cubic yards) that will be remediated	466

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 368350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	368350
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/30/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 368350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368350
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank Battery, tanks and process pipping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4128
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	466
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Leslie East Facility Tank Battery [fAPP2202573571]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/30/2024

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

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

QUESTIONS, Page 6

Action 368350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368350
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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 368350

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368350
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	9/6/2024