



May 1, 2024

New Mexico Energy Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Rodney Robinson North TB
Incident Number nAPP2403731760
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Rodney Robinson North TB (Site). The Site is located in Unit L, Section 06, Township 23 South, Range 33 East, in Lea County, New Mexico (32.4816612°, -103.6253408°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2403731760.

BACKGROUND

On February 5, 2024, the inlet on the separator nipple split, resulting in the release of approximately 18 barrels (bbls) of produced water onto the caliche pad; approximately 4 bbls of produced water were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on February 6, 2024, and submitted an initial C-141 application (Form C-141) on February 12, 2024, and the release was subsequently assigned Incident Number nAPP2403731760.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, C 4782 POD1, located approximately 0.23 miles west of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total

depth of 105 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 2.37 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On February 5, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On February 14, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Five delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface to assess the lateral extent of affected soil. Two boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release area. Boreholes BH01 and BH02 were advanced to a depth of 2 feet bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from ground surface to 2 feet bgs. Soil from the discrete delineation soil samples was field screened for chloride utilizing the Mohr titration method. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

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

Beginning on March 26, 2024, waste-containing soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a skid steer and hand tools. The excavation occurred on the well pad and on the west side of the separators. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride utilizing a PetroFLAG[®] analyzer kit and Hach[®] chloride QuanTab[®] test strips, respectively.

Following the removal of waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS18) were collected from the floor of the excavation at depths ranging from ground surface to 0.5 feet bgs. Due to the shallow nature of the excavation, confirmation sidewall soil samples were incorporated into the excavation floor samples. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 3,263 square feet. A total of approximately 12 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

Ensolum personnel returned to the Site on April 26, 2024, to collect additional lateral delineation soil samples in between the excavation extent and lateral soil delineation soil samples SS01, SS03 and SS04. The nine additional delineation soil samples (SS01A, SS01B, SS01C, SS03A, SS03B, SS04A, SS04B, SS04C, and SS04D) were collected at ground surface to verify the remaining surface area in between the excavation extent and delineation soil samples SS01, SS03 and SS04, were below the applicable Site Closure Criteria. This release remained on the well pad and it is currently in operation for oil and gas production purposes. As such, the area in between the excavation extent at lateral delineation soil samples SS01, SS03 and SS04 is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS05, collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 and BH02 indicated all COC concentrations were in compliance with the Closure Criteria at depths ranging from ground surface to 2 feet bgs.

Laboratory analytical results for excavation floor soil samples FS01 through FS18 indicated all COC concentrations were compliant with the Site Closure Criteria at depth ranging from ground surface to 0.5 feet bgs. Laboratory analytical results for lateral delineation soil samples SS01A, SS01B, SS01C, SS03A, SS03B, SS04A, SS04B, SS04C, and SS04D were all below the Site Closure Criteria at ground surface. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples SS01 through SS05, collected at ground surface, and vertically by boreholes BH01 and BH02, collected at terminal depths of 2 feet bgs. Excavation of the impacted area on pad was completed, and excavation floor samples FS01 through FS18, collected at depths ranging from ground surface to 0.5 feet bgs, were in compliance with the Site Closure Criteria. Nine additional lateral delineation soil samples (SS01A, SS01B, SS01C, SS03A, SS03B, SS04A, SS04B, SS04C, and SS04D) were collected at ground surface to verify the area in between the excavation extent and the five original lateral delineation soil sample locations was in compliance with the Site Closure Criteria.

Based on the remedial actions completed to date and a depth to groundwater greater than 105 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2403731760.

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

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Scientist



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





Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Email Correspondence






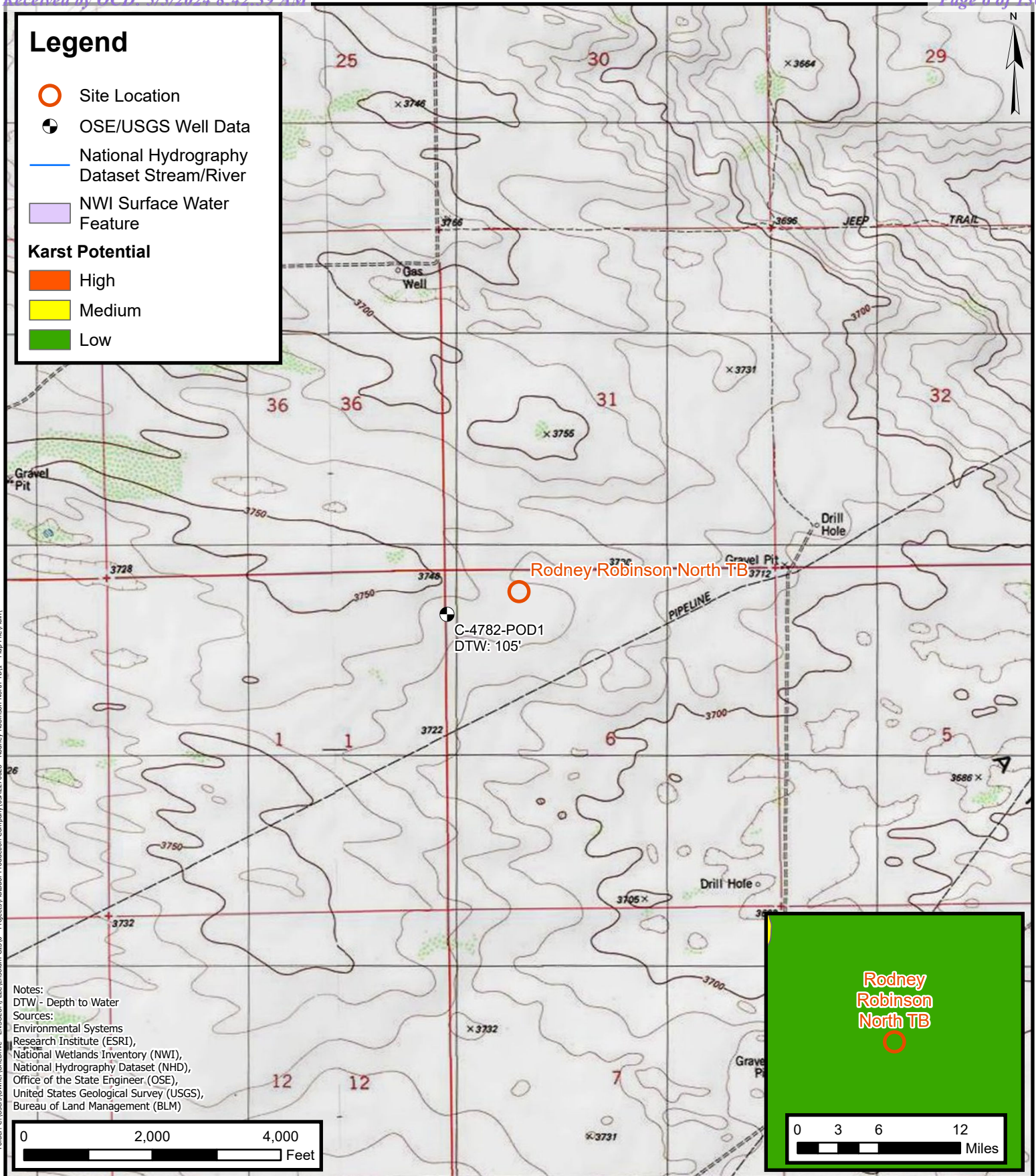
FIGURES

Legend

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

Karst Potential

-  High
-  Medium
-  Low



Site Receptor Map

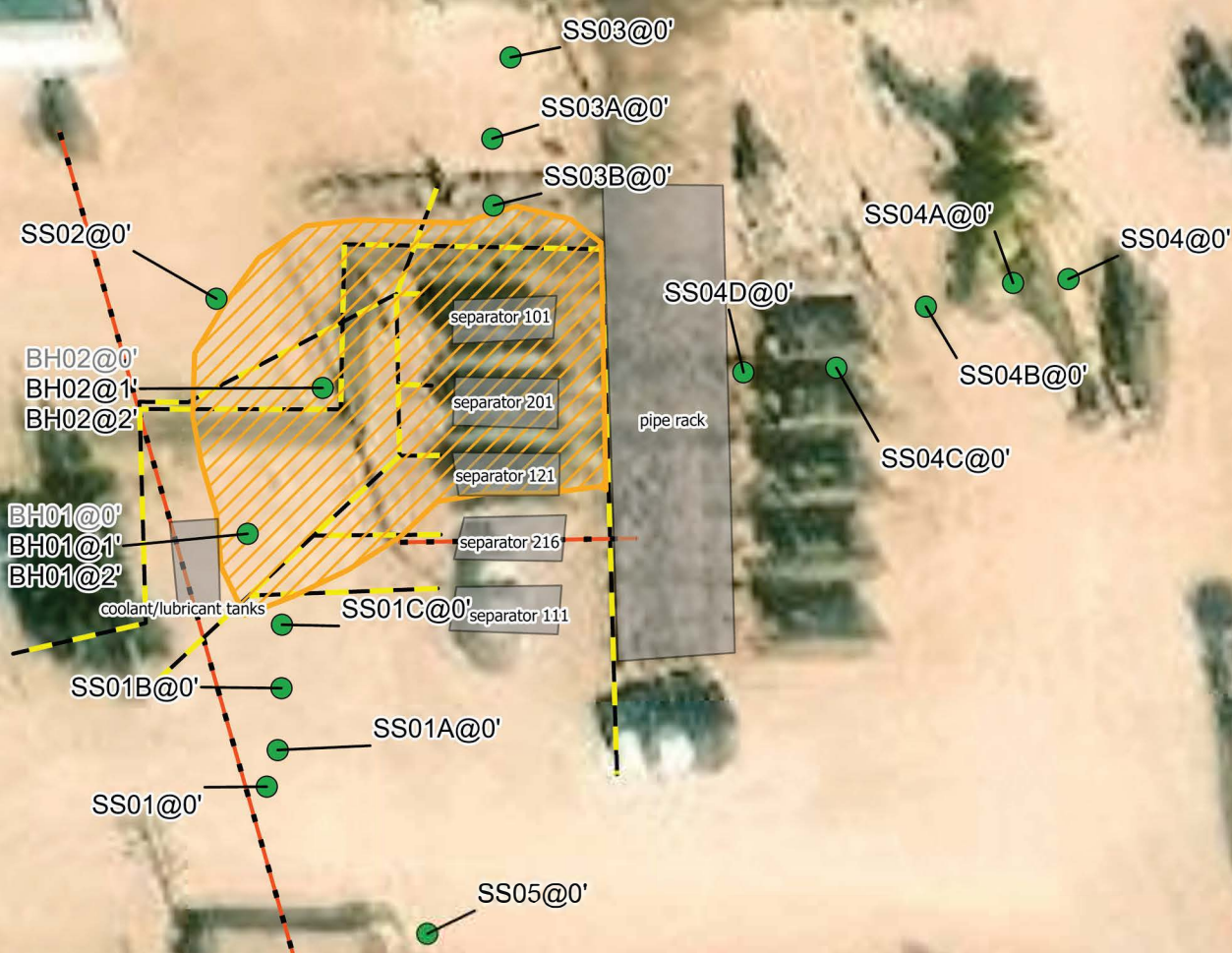
Matador Production Company
Rodney Robinson North TB
Incident Number: nAPP2403731760
Unit L, Section 06, Township 23S, Range 33E
Lea County, New Mexico

FIGURE

1

Legend

- Delineation Soil Samples
Compliant with Closure
Criteria
- Release Extent
- Production Equipment
- Electric Utility Line
- Oil and Gas Utility Line



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



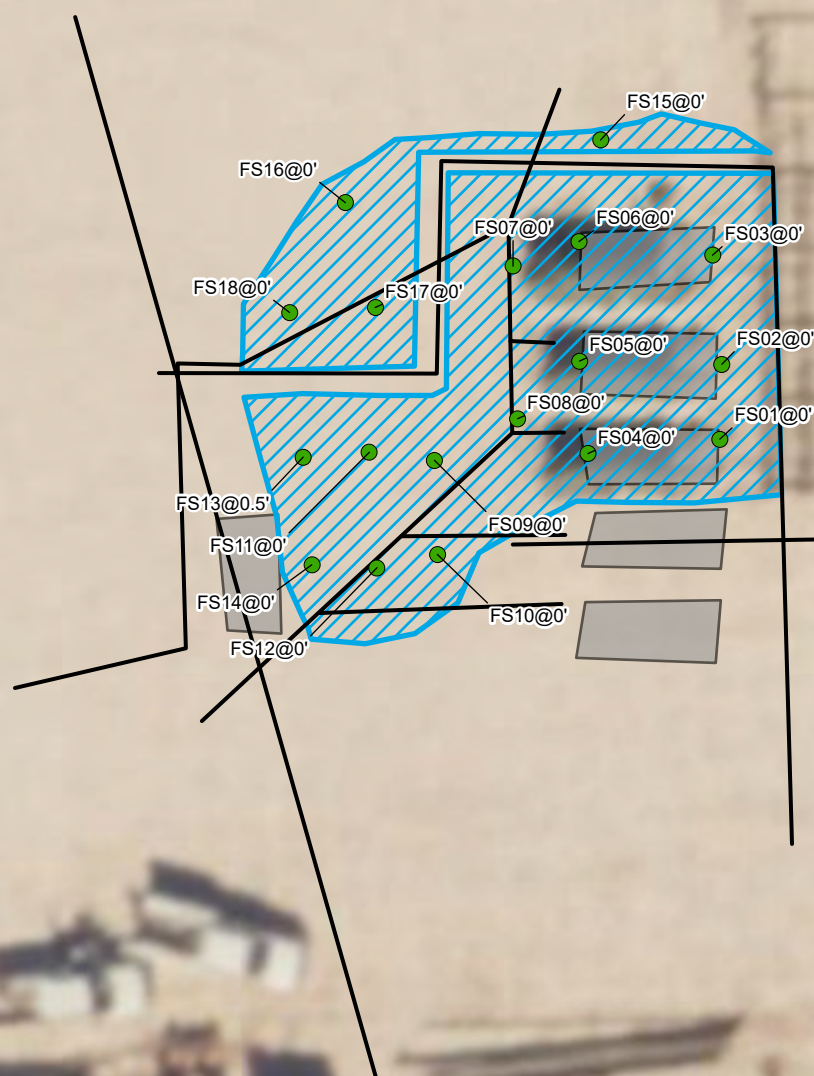
Delineation Soil Sample Locations

Matador Production Company
Rodney Robinson North TB
Incident Number: nAPP2403731760
Unit L, Section 06, T 23S, R 33E
Lea County, New Mexico, United States

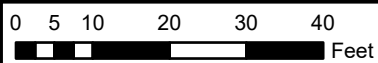
FIGURE
2

Legend

- Confirmation Soil Sample in Compliance with Closure Criteria
- Pipelines
- Equipment
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground/Surface.



Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

Matador Production Company
Rodney Robinson North TB
Incident Number: nAPP2403731760
Unit L, Section 06, Township 23S, Range 33E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Rodney Robinson North TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	2/14/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.9
SS01A	4/26/2024	0	<0.0250	<0.0500	<20.0	80.2	69.1	80.2	149	114
SS01B	4/26/2024	0	<0.0250	<0.0500	<20.0	481	169.0	<20.0	650	752
SS01C	4/26/2024	0	<0.0250	<0.0500	<20.0	662	384.0	662	1,046	642
SS02	2/14/2024	0	<0.0250	<0.0500	<20.0	50.0	<50.0	50.0	50.0	234
SS03	2/14/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	40.4
SS03A	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	177
SS03B	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	28.6	413
SS04	2/14/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.8
SS04A	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	114
SS04B	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	337
SS04C	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	873
SS04D	4/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,990
SS05	2/14/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	2/14/2024	0	<0.0250	<0.0500	<20.0	441	189	441	630	860
BH01	2/14/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.0
BH01	2/14/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.1
BH02	2/14/2024	0	<0.0250	<0.0500	<20.0	50.9	56.1	50.9	107	1,530
BH02	2/14/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20
BH02	2/14/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20

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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Rodney Robinson North TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	2,800
FS02	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	9,770
FS03	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	6,510
FS04	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,780
FS05	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	5,750
FS06	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	2,870
FS07	3/26/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,780
FS08	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	215
FS09	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	441
FS10	3/27/2024	0	<0.025	<0.0250	<20.0	96.2	54.8	96.2	151	116
FS11	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	53.1
FS12	3/27/2024	0	<0.025	<0.0250	<20.0	53.5	<50.0	53.5	54	88.8
FS13	3/27/2024	0.5	<0.025	<0.0250	<20.0	536	190	536	726	1,130
FS14	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,730
FS15	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	236
FS16	3/27/2024	0	<0.025	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	50.6
FS17	3/27/2024	0	<0.025	<0.0250	<20.0	25.7	<50.0	25.7	26	181
FS18	3/27/2024	0	<0.025	<0.0250	<20.0	35.0	50.3	<25.0	<25.0	91.2

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.

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



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: E-4782-POD1

Name of well owner: Solaris Water Midstream

Mailing address: 3305 Boyd Drive

City: Carlsbad State: NM Zip code: 88220

Phone number: 469-978-5620 E-mail: rob.kirk@solariswater.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Jason Maley

New Mexico Well Driller License No.: WD-1690 Expiration Date: 10/07/2023

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32.339152 deg, _____ min, _____ sec
Longitude: -103.619787 deg, _____ min, _____ sec, WGS84
☐ Check if seconds are decimal format.

2) Reason(s) for plugging well:

The test boring will be drilled to evaluate for the absence or presence of groundwater less than 105-ft at salt water spill location.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no, dry If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: no water feet below land surface / feet above land surface (circle one)

6) Depth of the well: ~105 feet

- 7) Inside diameter of innermost casing: no casing inches.
- 8) Casing material: _____
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: no water, test boring only
☐ a well screen or perforated pipe, state the screened interval(s): no water, no well constructed
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? no casing or gravel pack
- 11) Was the well built with surface casing? no well If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? no seal If yes, please describe:

open 6.25-inch boring
- 12) Has all pumping equipment and associated piping been removed from the well? none installed If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

well to be plugged with bentonite chips. Hydrate at 5-gallons per sack. Bentonite and water added in lifts. Bentonite below 20-ft to total depth will be tremied in.
- 2) Will well head be cut-off below land surface after plugging? no well head

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 22.4 cubic feet
- 4) Type of Cement proposed: no cement
- 5) Proposed cement grout mix: no slurry gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: NA batch-mixed and delivered to the site
NA mixed on site

2020, 2:10:23 PM

- 7) Grout additives requested, and percent by dry weight relative to cement:

Grout not planned

- 8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Boring drilled as a test boring to 105-ft. Will add bentonite chips and water in lifts to abandon.

VIII. SIGNATURE:

I, Rob Kirk, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Kirk Rob

Digitally signed by Kirk Rob
Date: 2023.10.16 12:25:02 -06'00'

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 17th day of October, 2023

Mike A. Hamman, P.E., New Mexico State Engineer



By: [Signature]
 Samantha Davis
 Water Resources Professional III

Well Plugging Plan
 Version 06/30/2017
 Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	Does Not Apply (DNA)		
Bottom of proposed interval of grout placement (ft bgl)	DNA		
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

USE ON OCT 16 2023 #2109

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	1-ft. Fill to one-ft below ground surface. Top 1-ft will be filled with soil backfill.		
Bottom of proposed sealant of grout placement (ft bgl)	Bottom 106.8-ft 0 to 20': pour from surface 20 to 105': tremie in bentonite chips.		
Theoretical volume of sealant required per interval (gallons)	22.4-cubic feet 167.6 gallons of water		
Proposed abandonment sealant (manufacturer and trade name)	Wyoming Bentonite		

USE DIT OCT 16 2023 10:00



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

1900 West Second St.
 Roswell, New Mexico 88201
 Phone: (575) 622-6521
 Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged.
 Jason Maley (WD-1833) will perform the plugging.

Permittee: Solaris Water Midstream
 NMOSE Permit Number: C-4782-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4782-POD1	6.25	105	Unknown	32.339152	103.619787

Specific Plugging Conditions of Approval for Well located in Lea County.

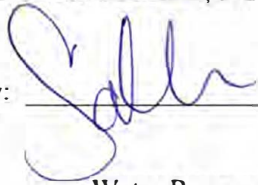
1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Ground Water encountered: The total theoretical volume of sealant required for abandonment of the 6.25 inch diameter (I.D.) casing is approximately 22.37 cubic feet . Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 105 feet below ground surface (b.g.s.).
3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 4.26 cubic feet. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
4. **Ground Water encountered:** Bentonite chips is the approved sealant. When bentonite chips are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
5. **Dry Hole:** (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Bentonite Chips. The bentonite shall be hydrated separately with its required increments of water.

6. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.
7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 17th day of October, 2023

Mike A. Hamnan, P.E. State Engineer

By: 
Samantha Davis
Water Resources Professional III





STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

October 17, 2023

Solaris Water Midstream
3305 Boyd Drive
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4782-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Well Plugging Plan of Operations form (WD-08) has been updated.

Current form can be found on the OSE website at the following site
<https://www.ose.state.nm.us/Statewide/wdForms.php>

Sincerely,

A handwritten signature in blue ink, appearing to read "Samantha Davis", written over a horizontal line.

Samantha Davis
Water Resources Professional III



APPENDIX B

Photographic Log



Photographic Log

Matador Production Company

Rodney Robinson North TB

Incident Number: nAPP2403731760



Photograph 5 Date: 2/14/2024
Description: BH01 Delineation Area
View: East



Photograph 6 Date: 2/14/2024
Description: Release Area
View: Southeast



Photograph 7 Date: 3/26/2024
Description: South
View: Scrape Area



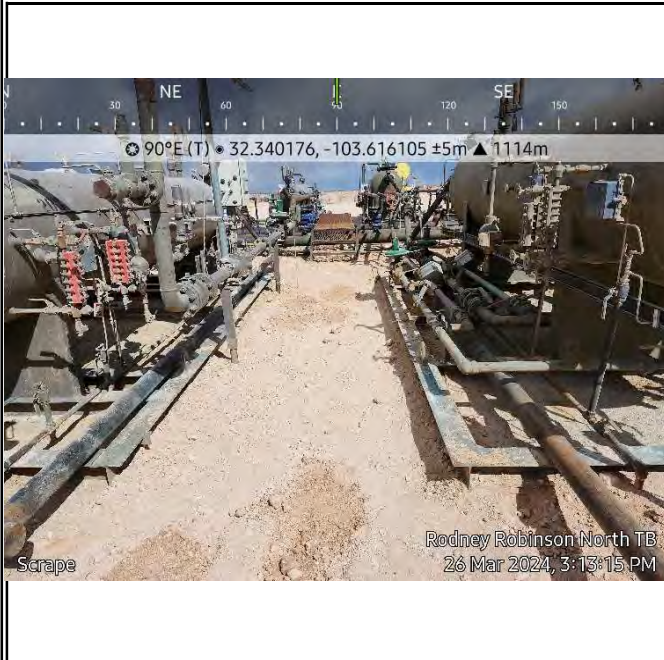
Photograph 8 Date: 3/26/2024
Description: West
View: Scrape area

**Photographic Log**

Matador Production Company

Rodney Robinson North TB

Incident Number: nAPP2403731760



Photograph 9

Date: 3/26/2024

Description: Scrape Area

View: East



Photograph 10

Date: 3/26/2024

Description: Scrape Area

View: North



Photograph 11

Date: 3/26/2024

Description: Scrape Area

View: North



Photograph 12

Date: 3/26/2024

Description: Scrape Area

View: North



Photographic Log

Matador Production Company

Rodney Robinson North TB

Incident Number: nAPP2403731760



Photograph 13

Date: 3/26/2024

Description: Scrape Area

View: East

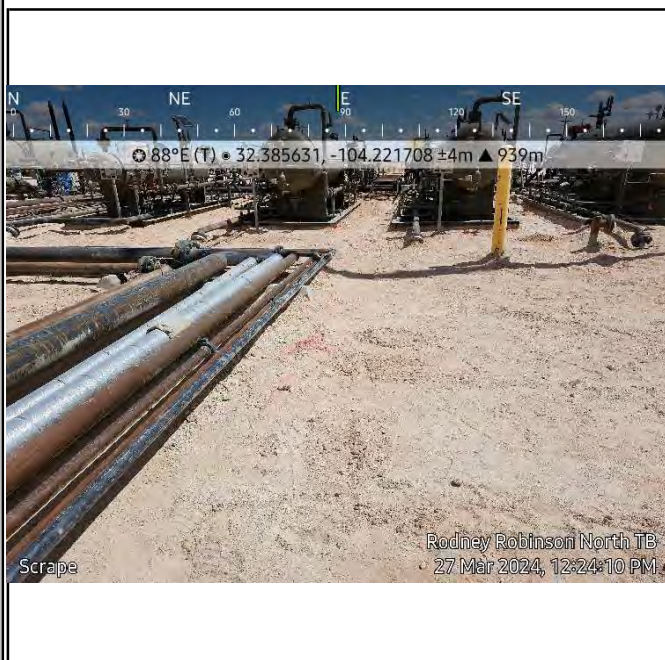


Photograph 14

Date: 3/26/2024

Description: Scrape Area

View: South



Photograph 15

Date: 3/26/2024

Description: Scrape Area

View: East



Photograph 16

Date: 3/26/2024

Description: Scrape Area

View: East

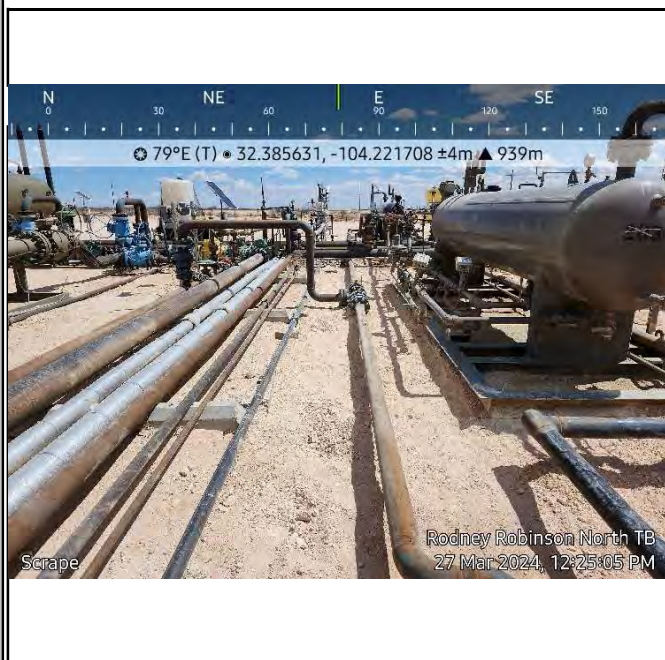


Photographic Log

Matador Production Company

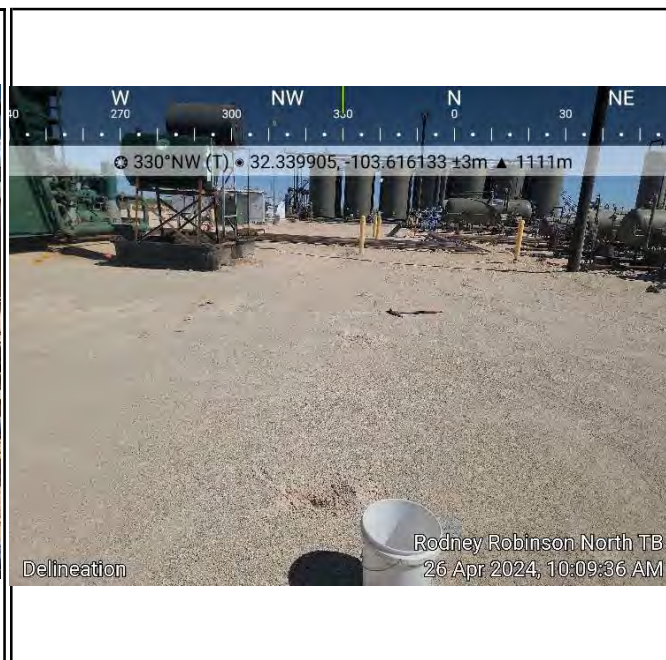
Rodney Robinson North TB

Incident Number: nAPP2403731760



Photograph 17
Description: Scrape Area
View: East

Date: 3/27/2024



Photograph 18
Description: Delineation Sampling
View: Northwest

Date: 4/26/2024



Photograph 19
Description: Delineation Sampling
View: Southwest

Date: 4/26/2024




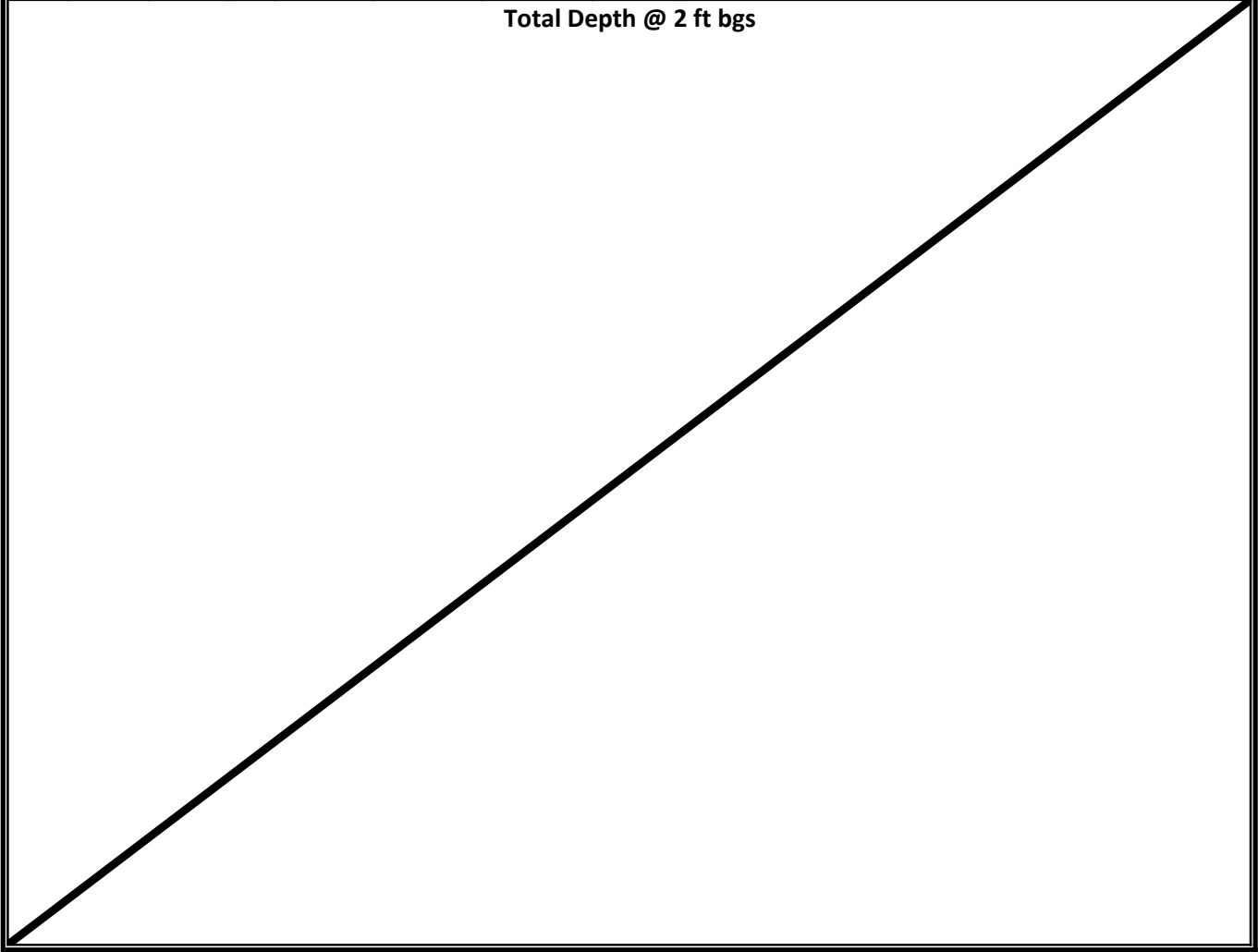
Photograph 20
Description: Delineation Sampling
View: Northwest


Date: 4/26/2024



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 2/14/2024	
LITHOLOGIC / SOIL SAMPLING LOG								Rodney Robinson North TB			
								Incident Number: nAPP2403731760			
								Job Number: 03A2270028			
Coordinates: 32.340084, -103.615981								Logged By: Ethan Haft		Method: Hand Auger	
								Hole Diameter: 3"		Total Depth: 2ft BGS	
Comments: Field screening conducted with HACH Chloride Test Strips chloride and PetroFlag for total petroleum hydrocarbons (TPH). Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	700	NA	N	BH01	0	0	CCHE	Pad caliche and fine-grained carbonate.			
Wet	ND	NA	N	BH01	1	1	CL	Dark brown silty clay, disseminated carbonate gravel. Poorly graded. Moderate plasticity.			
Wet	ND	14	N	BH01	2	2	CL	Dark brown to red silty clay. Well graded. Plastic.			
Total Depth @ 2 ft bgs											
											

								Sample Name: BH02		Date: 2/14/2024	
LITHOLOGIC / SOIL SAMPLING LOG								Rodney Robinson North TB			
								Incident Number: nAPP2403731760			
								Job Number: 03A2270028			
Coordinates: 32.340084, -103.615981								Logged By: Ethan Haft		Method: Hand Auger	
Comments: Field screening conducted with HACH Chloride Test Strips chloride and PetroFlag for total petroleum hydrocarbons (TPH). Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								Hole Diameter: 3"		Total Depth: 2ft BGS	
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	1260	NA	N	BH02	0	0	SM	Dark brown silty clay w/ fine carbonate gravel Poorly graded, non-plastic.			
Wet	ND	NA	N	BH02	1	1	CL	Dark brown silty clay, disseminated carbonate gravel. Poorly graded. Moderate plasticity.			
Wet	ND	14	N	BH02	2	2	CL	Dark Brown silty clay, well graded, plastic.			
Total Depth @ 2 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: Rodney Robinson North TB

Work Order: E402146

Job Number: 23003-C-0001

Received: 2/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/22/24

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: 2/22/24

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



Project Name: Rodney Robinson North TB
Workorder: E402146
Date Received: 2/16/2024 8:34:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/16/2024 8:34:00AM, under the Project Name: Rodney Robinson North TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 02/22/24 13:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E402146-01A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
BH01-1'	E402146-02A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
BH01-2'	E402146-03A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
BH02-0'	E402146-04A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
BH02-1'	E402146-05A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
BH02-2'	E402146-06A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH01-0'

E402146-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	441	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	189	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane	103 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	860	20.0	1	02/19/24	02/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH01-1'

E402146-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane	94.7 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	31.0	20.0	1	02/19/24	02/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH01-2'

E402146-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
<i>Surrogate: n-Nonane</i>						
	89.9 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	39.1	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH02-0'

E402146-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.1 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	50.9	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	56.1	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane	56.1 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	1530	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH02-1'

E402146-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
<i>Surrogate: n-Nonane</i>						
	98.7 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	ND	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/22/2024 1:49:31PM
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BH02-2'

E402146-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408038	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane	94.6 %	50-200		02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408014	
Chloride	ND	20.0	1	02/19/24	02/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/22/2024 1:49:31PM

Volatile Organics by EPA 8021B

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
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Blank (2407086-BLK1)

Prepared: 02/16/24 Analyzed: 02/20/24

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		93.5	70-130			

LCS (2407086-BS1)

Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.3	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike (2407086-MS1)

Source: E402145-08

Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2407086-MSD1)

Source: E402145-08

Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	4.91	0.0250	5.00	ND	98.2	54-133	4.41	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	4.79	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	4.57	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	4.70	20	
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131	4.60	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	4.63	20	
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/22/2024 1:49:31PM

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
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Blank (2407086-BLK1) Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

LCS (2407086-BS2) Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike (2407086-MS2) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2407086-MSD2) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130	6.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/22/2024 1:49:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408038-BLK1)					Prepared: 02/20/24 Analyzed: 02/21/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2408038-BS1)					Prepared: 02/20/24 Analyzed: 02/21/24				
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

Matrix Spike (2408038-MS1)					Source: E402146-04		Prepared: 02/20/24 Analyzed: 02/21/24		
Diesel Range Organics (C10-C28)	334	25.0	250	50.9	113	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike Dup (2408038-MSD1)					Source: E402146-04		Prepared: 02/20/24 Analyzed: 02/21/24		
Diesel Range Organics (C10-C28)	321	25.0	250	50.9	108	38-132	3.91	20	
Surrogate: n-Nonane	49.8		50.0		99.6	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/22/2024 1:49:31PM

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
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Blank (2408014-BLK1)					Prepared: 02/19/24 Analyzed: 02/19/24				
Chloride	ND	20.0							
LCS (2408014-BS1)					Prepared: 02/19/24 Analyzed: 02/19/24				
Chloride	268	20.0	250		107	90-110			
Matrix Spike (2408014-MS1)					Source: E402134-03		Prepared: 02/19/24 Analyzed: 02/19/24		
Chloride	349	20.0	250	80.1	107	80-120			
Matrix Spike Dup (2408014-MSD1)					Source: E402134-03		Prepared: 02/19/24 Analyzed: 02/19/24		
Chloride	337	20.0	250	80.1	103	80-120	3.48	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:	Rodney Robinson North TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/22/24 13:49

- 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: Rodney Robinson North TB						Attention: Ensolum LLC							Lab WO# E402146				Job Number 23003-C-0001				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo						Address: on file																		x				
Address: 3122 National Parks Hwy						City, State, Zip:																						
City, State, Zip: Carlsbad NM, 88220						Phone: 575-988-0055																			RCRA			
Phone: 575-988-0055						Email: agiovengo@ensolum.com																						
Email: agiovengo@ensolum.com																												
Report due by:																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State														
														NM	CO	UT	AZ	TX										
														x						Remarks								
11:49	2/14/2024	Soil	1	BH01 - 0'	1							X																
11:56	2/14/2024	Soil	1	BH01 - 1'	2							X																
12:01	2/14/2024	Soil	1	BH01 - 2'	3							X																
12:15	2/14/2024	Soil	1	BH02 - 0'	4							X																
12:22	2/14/2024	Soil	1	BH02 - 1'	5							X																
12:26	2/14/2024	Soil	1	BH02 - 2'	6																							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com, iestrella@ensolum.com - kept on ice																												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																
Relinquished by: (Signature) [Signature]												Received by: (Signature) [Signature]																
Date 2/15/24 Time 0700												Date 2-15-24 Time 0700																
Relinquished by: (Signature) [Signature]												Received by: (Signature) [Signature]																
Date 2-15-24 Time 1630												Date 2-15-24 Time 1800																
Relinquished by: (Signature) [Signature]												Received by: (Signature) [Signature]																
Date 2-15-24 Time 2400												Date 2/16/24 Time 8:34																
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: 2/16/2024 11:29:05AM

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:	02/16/24 08:34	Work Order ID:	E402146
Phone:	(972) 371-5200	Date Logged In:	02/16/24 08:34	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	02/22/24 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? Yes
22. Are sample(s) correctly preserved? No
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: Rodney Robinson North TB

Work Order: E402147

Job Number: 23003-C-0001

Received: 2/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/21/24

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: 2/21/24

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



Project Name: Rodney Robinson North TB
Workorder: E402147
Date Received: 2/16/2024 8:41:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/16/2024 8:41:00AM, under the Project Name: Rodney Robinson North TB.

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

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

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

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

Respectfully,

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 02/21/24 13:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E402147-01A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
SS02-0'	E402147-02A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
SS03-0'	E402147-03A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
SS04-0'	E402147-04A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.
SS05-0'	E402147-05A	Soil	02/14/24	02/16/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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SS01-0'

E402147-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.5 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408020	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/19/24	
Surrogate: n-Nonane	102 %	50-200		02/19/24	02/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408015	
Chloride	46.9	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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SS02-0'

E402147-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2408020	
Diesel Range Organics (C10-C28)	50.0	25.0	1	02/19/24	02/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/19/24	
<i>Surrogate: n-Nonane</i>						
	98.7 %	50-200		02/19/24	02/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2408015	
Chloride	234	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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SS03-0'

E402147-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408020	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/19/24	
Surrogate: n-Nonane	103 %	50-200		02/19/24	02/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408015	
Chloride	40.4	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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SS04-0'

E402147-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408020	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/19/24	
Surrogate: n-Nonane	102 %	50-200		02/19/24	02/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408015	
Chloride	42.8	20.0	1	02/19/24	02/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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SS05-0'

E402147-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Benzene	ND	0.0250	1	02/16/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/16/24	02/20/24	
Toluene	ND	0.0250	1	02/16/24	02/20/24	
o-Xylene	ND	0.0250	1	02/16/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/16/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/16/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2407086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		02/16/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2408020	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/19/24	
Surrogate: n-Nonane	105 %	50-200		02/19/24	02/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2408015	
Chloride	ND	20.0	1	02/19/24	02/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2024 1:30:31PM

Volatile Organics by EPA 8021B

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
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Blank (2407086-BLK1) Prepared: 02/16/24 Analyzed: 02/20/24

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		93.5	70-130			

LCS (2407086-BS1) Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.3	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike (2407086-MS1) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2407086-MSD1) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Benzene	4.91	0.0250	5.00	ND	98.2	54-133	4.41	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	4.79	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	4.57	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	4.70	20	
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131	4.60	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	4.63	20	
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2024 1:30:31PM

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
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Blank (2407086-BLK1) Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

LCS (2407086-BS2) Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike (2407086-MS2) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2407086-MSD2) Source: E402145-08 Prepared: 02/16/24 Analyzed: 02/20/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130	6.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2024 1:30:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2408020-BLK1)					Prepared: 02/19/24 Analyzed: 02/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			

LCS (2408020-BS1)					Prepared: 02/19/24 Analyzed: 02/19/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike (2408020-MS1)					Source: E402161-02		Prepared: 02/19/24 Analyzed: 02/19/24		
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

Matrix Spike Dup (2408020-MSD1)					Source: E402161-02		Prepared: 02/19/24 Analyzed: 02/19/24		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	0.358	20	
Surrogate: n-Nonane	48.8		50.0		97.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 2/21/2024 1:30:31PM
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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
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Blank (2408015-BLK1)					Prepared: 02/19/24 Analyzed: 02/20/24				
Chloride	ND	20.0							
LCS (2408015-BS1)					Prepared: 02/19/24 Analyzed: 02/20/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2408015-MS1)					Source: E402147-05		Prepared: 02/19/24 Analyzed: 02/20/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2408015-MSD1)					Source: E402147-05		Prepared: 02/19/24 Analyzed: 02/20/24		
Chloride	259	20.0	250	ND	104	80-120	0.303	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:	Rodney Robinson North TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/24 13:30

- 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: Rodney Robinson North TB				Attention: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo				Address: on file				E462147		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	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			
13:59	2/14/2024	Soil	1	SS01 - 0'	1								X							
10:40	2/14/2024	Soil	1	SS02 - 0'	2								X							
14:03	2/14/2024	Soil	1	SS03 - 0'	3								X							
14:06	2/14/2024	Soil	1	SS04 - 0'	4								X							
14:10	2/14/2024	Soil	1	SS05 - 0'	5								X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com, iestrella@ensolum.com - kept on ice																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Sampled by: Ethan Haft																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
[Signature]		2/15/24	0700	[Signature]		2-15-24	0700	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 _____												
[Signature]		2-15-24	1630	[Signature]		2-15-24	1800													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
[Signature]		2-15-24	2400	[Signature]		2/16/24	8:41	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: 2/16/2024 11:19:44AM

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:	02/16/24 08:41	Work Order ID:	E402147
Phone:	(972) 371-5200	Date Logged In:	02/16/24 08:41	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	02/22/24 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? Yes
22. Are sample(s) correctly preserved? No
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: Rodney Robinson North TB

Work Order: E403257

Job Number: 23003-C-0001

Received: 3/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/2/24

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: 4/2/24

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



Project Name: Rodney Robinson North TB
Workorder: E403257
Date Received: 3/28/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2024 5:30:00AM, under the Project Name: Rodney Robinson North TB.

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

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

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

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

Respectfully,

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

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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/02/24 16:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 -0'	E403257-01A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS02 -0'	E403257-02A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS03 -0'	E403257-03A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS04 -0'	E403257-04A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS05 -0'	E403257-05A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS06 -0'	E403257-06A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.
FS07 -0'	E403257-07A	Soil	03/26/24	03/28/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS01 -0'

E403257-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/28/24	
Toluene	ND	0.0250	1	03/28/24	03/28/24	
o-Xylene	ND	0.0250	1	03/28/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.8 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	68.3 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	2800	40.0	2	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS02 -0'

E403257-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/28/24	
Toluene	ND	0.0250	1	03/28/24	03/28/24	
o-Xylene	ND	0.0250	1	03/28/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	71.6 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	9770	200	10	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS03 -0'

E403257-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/28/24	
Toluene	ND	0.0250	1	03/28/24	03/28/24	
o-Xylene	ND	0.0250	1	03/28/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	94.8 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	72.9 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	6510	100	5	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS04 -0'

E403257-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	68.5 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	1780	20.0	1	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS05 -0'

E403257-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	64.8 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	5750	40.0	2	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS06 -0'

E403257-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/29/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/29/24	
Toluene	ND	0.0250	1	03/28/24	03/29/24	
o-Xylene	ND	0.0250	1	03/28/24	03/29/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/29/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/29/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		03/28/24	03/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	59.1 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	2870	40.0	2	03/28/24	03/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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FS07 -0'

E403257-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Benzene	ND	0.0250	1	03/28/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/28/24	03/28/24	
Toluene	ND	0.0250	1	03/28/24	03/28/24	
o-Xylene	ND	0.0250	1	03/28/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/28/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/28/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		03/28/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	73.8 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413098	
Chloride	1780	20.0	1	03/28/24	03/28/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 4:21:54PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413088-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

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

LCS (2413088-BS1) Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike (2413088-MS1) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	5.05	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2413088-MSD1) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Benzene	5.19	0.0250	5.00	ND	104	54-133	1.30	20	
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133	1.30	20	
Toluene	5.18	0.0250	5.00	ND	104	61-130	1.23	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	1.24	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.25	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	1.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 4:21:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413088-BLK1) Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2413088-BS2) Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2413088-MS2) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

Matrix Spike Dup (2413088-MSD2) Source: E403257-07 Prepared: 03/28/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 4:21:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413103-BLK1)					Prepared: 03/28/24 Analyzed: 03/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.6		50.0		73.2	50-200			

LCS (2413103-BS1)					Prepared: 03/28/24 Analyzed: 03/31/24				
Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	36.9		50.0		73.9	50-200			

Matrix Spike (2413103-MS1)					Source: E403253-01		Prepared: 03/28/24 Analyzed: 03/31/24		
Diesel Range Organics (C10-C28)	258	25.0	250	26.3	92.8	38-132			
Surrogate: n-Nonane	35.3		50.0		70.6	50-200			

Matrix Spike Dup (2413103-MSD1)					Source: E403253-01		Prepared: 03/28/24 Analyzed: 03/31/24		
Diesel Range Organics (C10-C28)	263	25.0	250	26.3	94.7	38-132	1.85	20	
Surrogate: n-Nonane	36.2		50.0		72.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 4:21:54PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413098-BLK1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	ND	20.0							
LCS (2413098-BS1)					Prepared: 03/28/24 Analyzed: 03/28/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2413098-MS1)					Source: E403257-04		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	1910	20.0	250	1780	53.5	80-120			M4
Matrix Spike Dup (2413098-MSD1)					Source: E403257-04		Prepared: 03/28/24 Analyzed: 03/28/24		
Chloride	3240	20.0	250	1780	583	80-120	51.4	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/02/24 16:21

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Matador Production Company					Bill To Attention: Ensolum LLC Address: on file City, State, Zip: Phone: 575-988-0055 Email: agiovengo@ensolum.com		Lab Use Only						TAT				EPA Program	
Project: Rodney Robinson North TB							Lab WO# E403257		Job Number 23003-E-0001		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo							Analysis and Method										RCRA	
Address: 3122 National Parks Hwy																		
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				
Email: agiovengo@ensolum.com														NM	CO	UT	AZ	TX
Report due by:																	Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
11:35	3/26/2024	S	1	FS01 - 0'	1								X					
11:41	3/26/2024	S	1	FS02 - 0'	2								X					
13:43	3/26/2024	S	1	FS03 - 0'	3								X					
11:37	3/26/2024	S	1	FS04 - 0'	4								X					
11:43	3/26/2024	S	1	FS05 - 0'	5								X					
13:46	3/26/2024	S	1	FS06 - 0'	6								X					
13:53	3/26/2024	S	1	FS07 - 0'	7								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 05/27/24 Time 1040												Received by: (Signature) _____ Date 3-27-24 Time 1040						
Relinquished by: (Signature) _____ Date 3-27-24 Time 1500												Received by: (Signature) _____ Date 3-27-24 Time 1815						
Relinquished by: (Signature) _____ Date 3-27-24 Time 2400												Received by: (Signature) _____ Date 3-28-24 Time 0530						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech

Envirotech Analytical Laboratory

Printed: 3/28/2024 9:16:49AM

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:	03/28/24 05:30	Work Order ID:	E403257
Phone:	(972) 371-5200	Date Logged In:	03/27/24 16:02	Logged In By:	Angelina Pineda
Email:	agiovnego@ensolum.com	Due Date:	04/03/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rodney Robinson North TB

Work Order: E403275

Job Number: 23003-C-0001

Received: 3/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/4/24

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



Project Name: Rodney Robinson North TB
Workorder: E403275
Date Received: 3/29/2024 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2024 7:15:00AM, under the Project Name: Rodney Robinson North TB.

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

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

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

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

Respectfully,

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

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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/04/24 13:41
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-0'	E403275-01A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS09-0'	E403275-02A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS10-0'	E403275-03A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS11-0'	E403275-04A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS12-0'	E403275-05A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS13-0.5'	E403275-06A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS14-0'	E403275-07A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS15-0'	E403275-08A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS16-0'	E403275-09A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS17-0'	E403275-10A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.
FS18-0'	E403275-11A	Soil	03/27/24	03/29/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS08-0'
E403275-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	94.9 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	98.5 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	215	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS09-0'

E403275-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	215	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	109	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	101 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	441	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS10-0'
E403275-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.4 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	96.2	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	54.8	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	98.3 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	116	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS11-0'

E403275-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	101 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	53.1	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS12-0'

E403275-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	53.5	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	99.6 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	88.8	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS13-0.5'

E403275-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	536	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	190	50.0	1	04/01/24	04/03/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	1130	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS14-0'

E403275-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	1730	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS15-0'

E403275-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	97.7 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	236	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS16-0'
E403275-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	99.4 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	50.6	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS17-0'

E403275-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	25.7	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/24	04/03/24	
Surrogate: n-Nonane	95.5 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	181	20.0	1	03/29/24	03/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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FS18-0'

E403275-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Benzene	ND	0.0250	1	03/29/24	04/02/24	
Ethylbenzene	ND	0.0250	1	03/29/24	04/02/24	
Toluene	ND	0.0250	1	03/29/24	04/02/24	
o-Xylene	ND	0.0250	1	03/29/24	04/02/24	
p,m-Xylene	ND	0.0500	1	03/29/24	04/02/24	
Total Xylenes	ND	0.0250	1	03/29/24	04/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/24	04/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		03/29/24	04/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414006	
Diesel Range Organics (C10-C28)	35.0	25.0	1	04/01/24	04/03/24	
Oil Range Organics (C28-C36)	50.3	50.0	1	04/01/24	04/03/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		04/01/24	04/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2413122	
Chloride	91.2	20.0	1	03/29/24	03/29/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2024 1:41:03PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413120-BLK1) Prepared: 03/29/24 Analyzed: 04/02/24

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 7.70 8.00 96.3 70-130

LCS (2413120-BS1) Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	4.73	0.0250	5.00		94.6	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130			
Toluene	4.72	0.0250	5.00		94.3	70-130			
o-Xylene	4.66	0.0250	5.00		93.2	70-130			
p,m-Xylene	9.41	0.0500	10.0		94.1	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.76 8.00 97.0 70-130

Matrix Spike (2413120-MS1) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133			
Toluene	5.32	0.0250	5.00	ND	106	61-130			
o-Xylene	5.26	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.68 8.00 96.0 70-130

Matrix Spike Dup (2413120-MSD1) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24

Benzene	5.24	0.0250	5.00	ND	105	54-133	1.73	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	1.81	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	1.94	20	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.08	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	1.79	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	1.89	20	

Surrogate: 4-Bromochlorobenzene-PID 7.66 8.00 95.8 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2024 1:41:03PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413120-BLK1) Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

LCS (2413120-BS2) Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike (2413120-MS2) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike Dup (2413120-MSD2) Source: E403275-11 Prepared: 03/29/24 Analyzed: 04/02/24

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.3	70-130	5.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2024 1:41:03PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2414006-BLK1)					Prepared: 04/01/24 Analyzed: 04/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

LCS (2414006-BS1)					Prepared: 04/01/24 Analyzed: 04/03/24				
Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2414006-MS1)					Source: E403275-05		Prepared: 04/01/24 Analyzed: 04/03/24		
Diesel Range Organics (C10-C28)	354	25.0	250	53.5	120	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2414006-MSD1)					Source: E403275-05		Prepared: 04/01/24 Analyzed: 04/03/24		
Diesel Range Organics (C10-C28)	380	25.0	250	53.5	130	38-132	6.99	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/4/2024 1:41:03PM
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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
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Blank (2413122-BLK1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	ND	20.0							
LCS (2413122-BS1)					Prepared: 03/29/24 Analyzed: 03/29/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2413122-MS1)					Source: E403275-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	371	20.0	250	88.8	113	80-120			
Matrix Spike Dup (2413122-MSD1)					Source: E403275-05		Prepared: 03/29/24 Analyzed: 03/29/24		
Chloride	370	20.0	250	88.8	112	80-120	0.300	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:	Rodney Robinson North TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/04/24 13:41

- 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: Rodney Robinson North TB					Attention: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: on file		E 403275	23003-G-0002				X							
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method							RCRA					
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	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															Remarks				
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
8:24	3/27/2024	S	1	FS08 - 0'	1								X						
8:26	3/27/2024	S	1	FS09 - 0'	2								X						
8:27	3/27/2024	S	1	FS10 - 0'	3								X						
8:32	3/27/2024	S	1	FS11 - 0'	4								X						
8:33	3/27/2024	S	1	FS12 - 0'	5								X						
11:07	3/27/2024	S	1	FS13 - 0.5'	6								X						
8:38	3/27/2024	S	1	FS14 - 0'	7								X						
8:40	3/27/2024	S	1	FS15 - 0'	8								X						
8:41	3/27/2024	S	1	FS16 - 0'	9								X						
8:44	3/27/2024	S	1	FS17 - 0'	10								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
		03/28/24	1436			3-28-24	1436
		3-28-24	1700			3-28-24	1915
		3-28-24	2400			3/29/24	0715

Lab Use Only		
Received on ice:	(Y) / N	
T1	T2	T3
AVG Temp °C 4		

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 3/29/2024 12:30:27PM

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.
 Phone: (972) 371-5200
 Email: agiovngo@ensolum.com

Date Received: 03/29/24 07:15
 Date Logged In: 03/28/24 16:21
 Due Date: 04/04/24 17:00 (4 day TAT)

Work Order ID: E403275
 Logged In By: Alexa Michaels

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: CourierSample 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 (pca 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rodney Robinson North TB

Work Order: E404267

Job Number: 23003-0002

Received: 4/29/2024

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
4/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/29/24

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



Project Name: Rodney Robinson North TB
Workorder: E404267
Date Received: 4/29/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/29/2024 7:45:00AM, under the Project Name: Rodney Robinson North TB.

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

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

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

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

Respectfully,

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

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 04/29/24 16:50
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01A-0'	E404267-01A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS01B-0'	E404267-02A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS01C-0'	E404267-03A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS03A-0'	E404267-04A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS03B-0'	E404267-05A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS04A-0'	E404267-06A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS04B-0'	E404267-07A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS04C-0'	E404267-08A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.
SS04D-0'	E404267-09A	Soil	04/26/24	04/29/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS01A-0'

E404267-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	80.2	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	69.1	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane	106 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	114	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS01B-0'

E404267-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	481	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	169	50.0	1	04/29/24	04/29/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	752	20.0	1	04/29/24	04/29/24	



Sample Data

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

Project Name: Rodney Robinson North TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/29/2024 4:50:06PM

SS01C-0'

E404267-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	662	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	384	50.0	1	04/29/24	04/29/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	642	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS03A-0'

E404267-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	177	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS03B-0'

E404267-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	28.6	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	413	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS04A-0'

E404267-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.8 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane	102 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	114	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS04B-0'

E404267-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane	106 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	337	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS04C-0'

E404267-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.9 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane	106 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	873	20.0	1	04/29/24	04/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rodney Robinson North TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2024 4:50:06PM
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SS04D-0'

E404267-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Benzene	ND	0.0250	1	04/29/24	04/29/24	
Ethylbenzene	ND	0.0250	1	04/29/24	04/29/24	
Toluene	ND	0.0250	1	04/29/24	04/29/24	
o-Xylene	ND	0.0250	1	04/29/24	04/29/24	
p,m-Xylene	ND	0.0500	1	04/29/24	04/29/24	
Total Xylenes	ND	0.0250	1	04/29/24	04/29/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2418009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/29/24	04/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.3 %	70-130		04/29/24	04/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane	108 %	50-200		04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2418001	
Chloride	2990	40.0	2	04/29/24	04/29/24	



Definitions and Notes

Matador Resources, LLC.	Project Name:	Rodney Robinson North TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/29/24 16:50

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State											
Client: <u>Matador</u>				Company: <u>Ensolum</u>		Lab WO# <u>E 404267</u>		Job Number <u>23003-0002</u>				<table border="1"> <tr> <td>1D</td> <td>2D</td> <td>3D</td> <td>Std</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>				1D	2D	3D	Std	<input checked="" type="checkbox"/>			
1D	2D	3D	Std																				
<input checked="" type="checkbox"/>																							
Project Name: <u>Rodney Robinson North TB</u>				Address: <u>on file</u>								<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> </tr> </table>				NM	CO	UT	TX	<input checked="" type="checkbox"/>			
NM	CO	UT	TX																				
<input checked="" type="checkbox"/>																							
Project Manager: <u>Ashley Giovenco</u>				City, State, Zip:																			
Address:				Phone:																			
City, State, Zip: <u>Carlsbad NM</u>				Email:																			
Phone: <u>575 988 0055</u>				Miscellaneous:																			
Email: <u>agiovenco@ensolum.com</u>																							
Sample Information										Analysis and Method				EPA Program									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
1008	4/26/24	Soil	1	SS01A - 0'		1						X											
1010				SS01B - 0'		2						X											
1011				SS01C - 0'		3						X											
1025				SS03A - 0'		4						X											
1026				SS03B - 0'		5						X											
1031				SS04A - 0'		6						X											
1034				SS04B - 0'		7						X											
1035				SS04C - 0'		8						X											
1037				SS04D - 0'		9						X											
Additional Instructions: <u>Please CC: Cole Burton, Ashley Giovenco, Chad Hamilton, Israel Estralla</u>																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>Cole Burton</u>																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent day. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>											
<u>Cole Burton</u>		4/26/24		1340		<u>Michelle Gonzales</u>		4-26-24		1340													
<u>Michelle Gonzales</u>		4-26-24		1700		<u>Cole Burton</u>		4-26-24		1700													
<u>Cole Burton</u>		4-26-24		2300		<u>Israel Estralla</u>		04/29/24		745													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 4/29/2024 4:48:41PM

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:	04/29/24 07:45	Work Order ID:	E404267
Phone:	(972) 371-5200	Date Logged In:	04/26/24 15:44	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	04/30/24 17:00 (1 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

Email Correspondence

From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 323494
Date: Tuesday, April 16, 2024 11:52:00 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC



“Your authenticity is your superpower.” – Unknown

From: Jason Touchet <jason.touchet@matadorresources.com>
Sent: Thursday, March 14, 2024 3:43 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: Clinton Talley <clinton.talley@matadorresources.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 323494

[**EXTERNAL EMAIL**]

EXTERNAL EMAIL

To whom it may concern (c/o Jason Touchet for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2403731760.

The sampling event is expected to take place:

When: 03/26/2024 @ 09:00

Where: L-06-23S-33E 0 FNL 0 FEL (32.34008,-103.61598)

Additional Information: N/A

Additional Instructions: 32.34008 -103.61598

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as

soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

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

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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

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QUESTIONS

Action 340867

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340867
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403731760
Incident Name	NAPP2403731760 RODNEY ROBINSON NORTH TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2202574515] Rodney Robinson North Facility Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Rodney Robinson North TB
Date Release Discovered	02/05/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 18 BBL Recovered: 4 BBL Lost: 14 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	340867
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 02/12/2024
--	---

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QUESTIONS, Page 3

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340867
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
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)	9770
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1046
GRO+DRO	(EPA SW-846 Method 8015M)	662
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/26/2024
On what date will (or did) the final sampling or liner inspection occur	03/27/2024
On what date will (or was) the remediation complete(d)	03/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3263
What is the estimated volume (in cubic yards) that will be remediated	12

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

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

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QUESTIONS, Page 4

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340867
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.
<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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 05/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	340867
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	340867
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	323497
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2024
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	3424

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3263
What was the total volume (cubic yards) remediated	12
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 05/05/2024
--	--

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QUESTIONS, Page 7

Action 340867

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340867
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 340867

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	340867
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report approved, release resolved. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	5/20/2024