



January 9, 2025

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
George Well Pad
Incident Number nAPP2333038378
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the George Well Pad (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2333038378.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 14, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.21286°, -104.05189°) and is associated with oil and gas exploration and production operations on Private Land.

On November 26, 2023, a 4-inch butterfly valve was left open, resulting in the release of approximately 467 barrels (bbls) of a 50/50 mixture of produced water and diesel into a secondary containment and onto the caliche pad. A vacuum truck successfully recovered 450 bbls of produced water and diesel. Matador submitted a Release Notification Form C-141 (Form C-141) on November 28, 2023, to the New Mexico Oil Conservation Division (NMOCD), and the release was subsequently assigned Incident Number nAPP2333038378. The C-141 can be referenced on the NMOCD Portal. A *Remediation Work Plan* was submitted to NMOCD on April 22, 2024. The submitted *Remediation Work Plan* was approved by Shelly Wells on April 22, 2024, with the request for sampling confirmation frequency variance of one sample per 400 square feet; however, notes in the approval indicated confirmation soil samples from the excavation floor and sidewalls should be collected every 200 square feet.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site

Assessment/Characterization. Potential Site receptors are identified on Figure 1 and the referenced well records are included in Appendix A.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, C-04828 POD1, located approximately 0.22 miles northeast of the Site. The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced to a depth of approximately 55 feet below ground surface (bgs) on June 10, 2024, and measured on June 13, 2024, to be dry and confirming depth to groundwater beneath the Site is estimated to be greater than 55 feet bgs.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland area, located approximately 686 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On December 5, 2023, December 6, 2023, and December 17, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight preliminary soil samples (SS01 through SS08) were collected around the release extent at ground surface to assess the lateral extent of the impacted area. Four potholes, PH01 through PH04, were advanced within the release extent to assess the vertical extent of impacted soil; pothole PH04 was advanced to a depth of 4 feet bgs, PH03 was advanced to a depth of 2 feet bgs, PH01 was advanced to a depth of 1-foot bgs, and PH02 was advanced to a depth of 4 feet bgs. On October 3, 2024, Ensolum personnel returned to the Site to continue delineation activities. Potholes PH01 and PH02 were advanced further via a tracked excavator to a depth of 13 feet bgs. On December 17, 2024, Ensolum personnel returned to the Site to advance potholes PH01 and PH02 via air rotary drill. Pothole PH01 was advanced to a depth of 32 feet bgs and PH02 was advanced to a depth of 40 feet bgs. The preliminary soil samples were field screened for chloride utilizing Hach® Chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice 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.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

From October 1 through October 03, 2024, impacted soil was excavated via surface scrape from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a backhoe and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride utilizing Hach® chloride QuanTab® test strips and for TPH utilizing a PetroFLAG® soil analyzer system. The *Remediation Work Plan* was followed during the scrape of impacted material from the pad surface, collecting confirmation soil samples from the floor of the excavation every 400 square feet.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at least 400 square feet from the floor of the scrape. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS23) were collected from the floor of the excavation at depths ranging in depth from 4 to 10 inches bgs. Due to the shallow nature of the excavation, sidewall soil was incorporated into the floor confirmation 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 8,698 square feet. A total of approximately 161 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples (SS01 through SS005, SS07, and SS08) were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I at ground surface. Laboratory analytical results for potholes PH01, PH03, and PH04 indicated all COCs were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for pothole PH02 indicated all COCs were in compliance with the Site Closure Criteria at 1-foot bgs, but showed variable chloride concentrations higher than the Strictest Closure Criteria at a depth of 40 feet bgs. Laboratory analytical results for potholes PH01, PH03, and PH04 indicated COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at Depths of 32 feet bgs, 2 feet bgs, and 4 feet bgs, respectively.

Laboratory analytical results for excavation floor soil samples (FS01 through FS23) indicated all COC concentrations were compliant with the Site Closure Criteria at 0.5 feet bgs. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

George Well Pad



CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 2023 release of produced water and diesel. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Following approval of the 2024 *Remediation Work Plan* by NMOCD, Ensolum re-engaged Ms. Wells regarding the confirmation sampling frequency and Ms. Wells directed Ensolum to include the variance request in this *Closure Request*. As such, Matador respectfully requests a variance frequency of one five-point composite soil sample every 400 square feet from the floor of the excavation. Impacted soil from the release only extended to 10 inches bgs. The gross impacts from the release were shallow. Based on the areal extent of the on-pad excavation area, the variance request will be equally protective of human health, the environment, and groundwater since depth to ground water is reasonably estimated to be greater than 55 feet bgs, there are no other sensitive receptors in the vicinity of the Site, and waste-containing soil will be adequately addressed at the time of reclamation.

The release is laterally defined by samples SS01 through SS08 and vertically defined by potholes PH01 through PH04. Pothole PH02 shows elevated chlorides corresponding to TPH in samples within the top 6 feet bgs. These concentrations show a downward trend as the depth of the pothole increases until 6 feet bgs where the concentrations increase. The increase and variation of chloride concentrations at depth appear to be indicative of naturally occurring chloride and not as a result of the November 2023 release. Pothole PH02 shows concentrations of TPH in soil at depths of 6 feet, 10 feet, and 13 feet bgs. These TPH concentrations appear to be indicative of impacted soil falling from the near surface back into the pothole during delineation activities. A confining layer of gypsum was observed in PH01 and is anticipated to extend beyond depth, providing a barrier to restrict the potential migration of chloride deeper into the water table.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 55 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2333038378.

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

Sincerely,
Ensolum, LLC

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

Ashley Giovengo
Senior Scientist

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

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

CC: Jason Touchet, Matador
Arsenio Jones, Matador

Appendices:

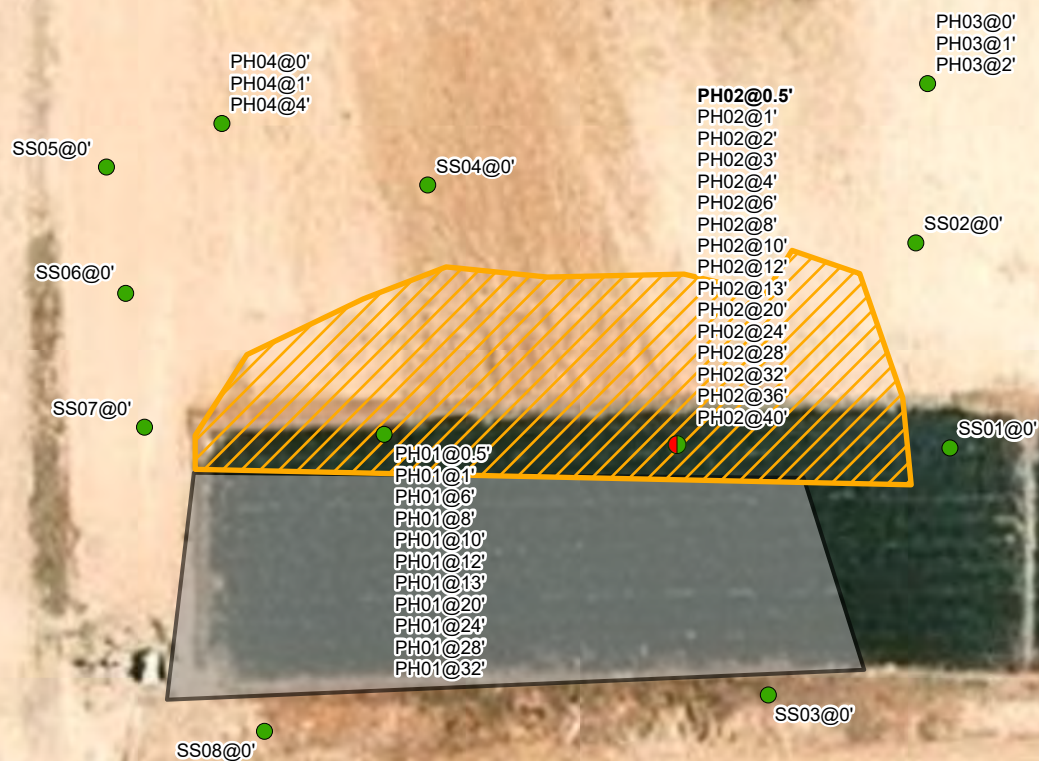
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Lithologic /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



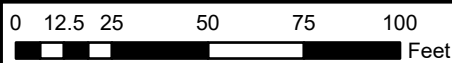
FIGURES

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent
- Liner Containment Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Delineation Soil Sample Locations**

Matador Production Company
George Well Pad
Incident Number: nAPP2333038378
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE
2

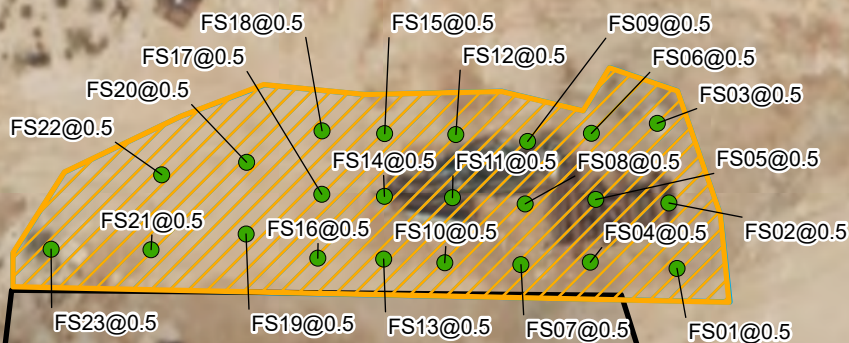
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure3 - Carlsbad\Matador Production Company\03A227022 - George Well Pad\1 - Project\George Well Pad.aprx

Legend

● Confirmation Soil Sample
in Compliance with
NMOCD Closure Criteria

□ Containment Liner

▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface

0 40 80
Feet

Source:
Bing Maps



Confirmation Soil Sample Locations

Matador Production Company

George Well Pad

Incident Number: nAPP2333038378

Unit P, Section 14, Township 24S, Range 28E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

George Well Pad
Matador Production Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
SS01	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	183
SS02	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	391
SS03	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	610
SS04	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	634
SS05	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	248
SS06	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
SS07	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	834
SS08	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	194
PH01	12/5/2023	0.5	<0.0250	<0.0250	<20.0	60.6	<50.0	<25.0	60.6	403
PH01	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	827
PH01	10/3/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,080
PH01	10/3/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,130
PH01	10/3/2024	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,820
PH01	10/3/2024	12	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,350
PH01	10/3/2024	13	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
PH01	12/17/2024	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	979
PH01	12/17/2024	24	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
PH01	12/17/2024	28	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	978
PH01	12/17/2024	32	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	421
PH02	12/5/2023	0.5	<0.0250	<0.0250	<20.0	1,210	<50.0	1,210	1,210	1,370
PH02	12/5/2023	1	<0.0250	<0.0250	<20.0	555	<50.0	555	555	1,230
PH02	12/5/2023	2	<0.0250	<0.0250	<20.0	168	<50.0	<25.0	168	896
PH02	12/5/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	572
PH02	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	765
PH02	10/3/2024	6	<0.0250	<0.0250	<20.0	27.5	<50.0	27.5	27.5	5,570
PH02	10/3/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	6,870
PH02	10/3/2024	10	<0.0250	<0.0250	<20.0	26.9	<50.0	26.9	26.9	7,000
PH02	10/3/2024	12	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	4,540
PH02	10/3/2024	13	<0.0250	<0.0250	<20.0	68.7	57.4	68.7	126.1	5,320



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 George Well Pad
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
PH02	12/17/2024	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	4,230
PH02	12/17/2024	24	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,660
PH02	12/17/2024	28	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	4,710
PH02	12/17/2024	32	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	5,470
PH02	12/17/2024	36	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,900
PH02	12/17/2024	40	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,580
PH03	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	381
PH03	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	442
PH03	12/5/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	454
PH04	12/5/2023	0	<0.0250	<0.0250	<20.0	95.7	<50.0	95.7	95.7	668
PH04	12/5/2023	1	<0.0250	<0.0250	<20.0	99.1	76.0	175.1	175.1	386
PH04	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS

George Well Pad
Matador Production Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
FS01	10/1/2024	0.5	<0.0250	<0.0500	<20.0	3,140	5,180	3,140	8,320	258
FS01	10/14/2024	0.5	<0.0250	<0.0500	<20.0	42.0	<50.0	42.0	42.0	287
FS02	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	1,250
FS03	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	4,450
FS04	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	2,330
FS05	10/1/2024	0.5	<0.0250	<0.0500	<20.0	54.9	<50.0	54.9	54.9	4,760
FS06	10/1/2024	0.5	<0.0250	<0.0500	<20.0	54.6	<50.0	54.6	54.6	4,320
FS07	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	4,960
FS08	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	2,090
FS09	10/1/2024	0.5	<0.0250	<0.0500	<20.0	89.5	<50.0	89.5	89.5	3,470
FS10	10/1/2024	0.5	<0.0250	<0.0500	<20.0	25.0	<50.0	25.0	25.0	3,430
FS11	10/1/2024	0.5	<0.0250	<0.0500	<20.0	151	<50.0	151	151	3,000
FS12	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	2,630
FS13	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	1,240
FS14	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	280
FS15	10/2/2024	0.5	<0.0250	<0.0500	<20.0	34.3	<50.0	34.3	34.3	700
FS16	10/2/2024	0.5	<0.0250	<0.0500	<20.0	118	74.3	118	192.3	1,110
FS17	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	797
FS18	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	401
FS19	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	609
FS20	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	514
FS21	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	959
FS22	10/3/2024	0.5	<0.0250	<0.0500	<20.0	200	108	200	308	890
FS23	10/3/2024	0.5	<0.0250	0.0897	<20.0	87.5	<50.0	87.5	<25.0	527

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.

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO. N/A		OSE FILE NO(S) C-04828 POD 1			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 56.0	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	03	00.3	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit E, Section 14, Township 24S, Range 28E, Eddy County, NM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 06/10/2024	DRILLING ENDED 06/10/2024	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	55	5.00	Soil Boring	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

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


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	10	20	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	20	30	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	30	40	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
	40	50	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with trac	Y ✓ N	
	50	55	5	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
	55	55	0	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	Scott Scarborough		Digitally signed by Scott Scarborough Date: 2024.06.26 07:04:55 -06'00'		Scott Scarborough 06/26/2024	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	





APPENDIX B


Lithologic Soil Sampling Logs


								Sample Name: PH01		Date: 12/17/2024	
								Site Name: George Well Pad			
								Incident Number: nAPP23330383			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EH, BS, CH		Method: Backhoe	
Coordinates: 32.212694, -104.052024								Hole Diameter: 1'		Total Depth: 32'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			
D	235		N	PH01	0.5	0.5	CCHE	Pad caliche, carbonate (limestone) clay and gravel. Light gray and powdery.			
D	590		N	PH01	1	1	SP-SM	Brown silt and clay, limestone pebbles and gravel.			
M	1,300		N	PH01	2	2	SW-SC	Dark brown silt and clay, moist, well sorted. Some limestone pebbles.			
M	2,300		N	PH01	3	3					
M	1,025		N	PH01	4	4					
M	3,427		N	PH01	5	5	SP-SM	Moist, No Stain, Red sand with silt and fine gravel, No Plasticity, No Pliability			
M	2,587		N	PH01	6	6					
M	2,772		N	PH01	7	7					
M	3,186		N	PH01	8	8					
M	2,419		N	PH01	9	9					
M	2,587		N	PH01	10	10					
M	1,848		N	PH01	11	11					
M	1,388		N	PH01	12	12					
M	1,293		N	PH01	13	13					
M	1,724		N	PH01	14	14					
M	1,495		N	PH01	15	15					
M	1,848		N	PH01	16	16					
M	1,388		N	PH01	17	17					
M	1,388		N	PH01	18	18	SC	Clayey Sand - Medium brown to red, medium to very fine grained, Dry, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
M	1,607		N	PH01	19	19					
M	1,052		N	PH01	20	20					
D	1,142		N	PH01	22	22	SC				
						23					
D	1,237		N	PH01	24	24					

Released to Imaging: 1/17/2025 4:19:28 PM

								Sample Name: PH02		Date: 12/17/2024	
								Site Name: George Well Pad			
								Incident Number: nAPP2333038378			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EH, BS, CH		Method: Air Rotary	
Coordinates: 32.212685, -104.051777								Hole Diameter: 3'		Total Depth: 40'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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			
D	1,870		N	PH02	0.5	0.5	CCHE	Pad caliche, carbonate (limestone) clay and gravel. Off white to tan.			
D	1,500		N	PH02	1	1					
D	1,025		N	PH02	2	2					
M	790		N	PH02	3	3	SW-SM	Dark brown silt and clay, low plasticity. Non-Uniform, some limestone gravel.			
M	620		N	PH02	4	4					
M	>3,427		N	PH02	5	5	SP-SM	Moist, Red sand with silt and fine gravel with interbedded reduction zones , No Plasticity, No Pliability			
M	>3,427		N	PH02	6	6					
M	>3,427		N	PH02	7	7					
M	>3,427		N	PH02	8	8					
M	>3,427		N	PH02	9	9					
M	>3,427		N	PH02	10	10					
M	>3,427		N	PH02	11	11					
M	>3,427		N	PH02	12	12					
M	>3,427		N	PH02	13	13					
M	>3,427		N	PH02	14	14					
M	>3,427		N	PH02	15	15	SP-SM	Dry, Platy red sand with interbedded reduction zones, No Plasticity, No Pliability			
M	>3,427		N	PH02	16	16					
M	>3,427		N	PH02	17	17					
M	>3,427		N	PH02	18	18					
M	>3,427		N	PH02	19	19					
D	2,895		N	PH02	20	20					
						21	SC	Clayey Sand - Medium brown to red, Coarse to very fine grained, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform			
D	884		N	PH02	22	22					
						23					
D	1,052		N	PH02	24	24					

 ENSOLUM		Sample Name: PH02		Date: 12/17/2024				
		Site Name: George Well Pad						
		Incident Number: nAPP2333038378						
		Job Number: 03A2270022						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.212685, -104.051777			Logged By: EH, BS, CH		Method: Air Rotary			
			Hole Diameter: 3'		Total Depth: 40'			
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. 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
D	2,049		N	PH02	26	25	SC	Clayey Sand - Medium brown to red, Coarse to very fine grained, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	2,520		N	PH02	28	26	SC	Clayey Sand - Light to medium brown, Coarse to very fine grained, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
					27	27		
D	3,113		N	PH02	30	28		
					29	29		
D	3,113		N	PH02	32	30	SC	Clayey Sand - Medium brown to red, Coarse to very fine grained, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	3,113		N	PH02	34	30		
					31	31		
D	2,520		N	PH02	36	32		
D	2,520		N	PH02	38	33	SC	Clayey Sand - Medium brown to red, Coarse to very fine grained, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
					34	34		
D	2,520		N	PH02	40	35		
					36	36		
D	1,786		N	PH02	40	37		
					38	37		
D	2,050		N	PH02	40	38		
					39	39		
					40	40		
Total Depth @ 40 feet bgs.								

								Sample Name: PH03		Date: 12/5/2023	
								Site Name: George Well Pad			
								Incident Number: nAPP2333038378			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ethan Haft		Method: Back Hoe	
Coordinates: 32.2129411, -104.0515639								Hole Diameter: 12 inches		Total Depth: 9 ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	350	NA	N	PH03	0	0	SM	Pad caliche, powdery carbonate clay and pebbles. Light off white, moderate sorting.			
Moist	500	NA	N	PH03	1	1	SC	Dark brown clay, high plasticity. well sorted.			
Moist	440	NA	N	PH03	2	2	SW-SM	Dark brown silt and clay, low plasticity. Thinly bedded mudstone, well sorted.			
Total Depth @ 2 feet bgs											

								Sample Name: PH04		Date: 12/5/2023	
								Site Name: George Well Pad			
								Incident Number: nAPP2333038378			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ethan Haft		Method: Back Hoe	
Coordinates: 32.212916, -104.052158								Hole Diameter: 12 inches		Total Depth: 8ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	610	NA	N	PH04	0	0	SM	Pad caliche, carbonate clay and gravel. Off white and powdery, moderate sorting.			
Dry	493	NA	N	PH04	1	1	SP-SM	Pad caliche, light to dark brown silt and clay. Limestone gravel, moderate sorting.			
Moist	ND	NA	N	PH04		2	SW-SC	Dark brown to reddish clay, high plasticity. Well sorted.			
Moist	ND	NA	N	PH04		3	SW-SC	Dark brown to reddish clay, high plasticity. Limestone gravel, well sorted.			
Moist	ND	NA	N	PH04	4	4	SW-SC	Dark brown silt and clay, thinly bedded mudstone. Well sorted.			
Total Depth @ 4 feet bgs.											



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

George Well Pad

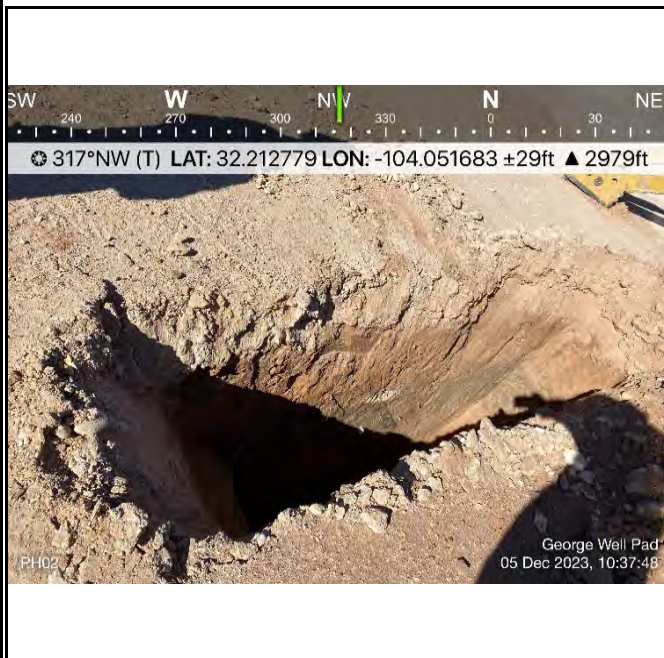
nAPP2333038378



Photograph 1 Date: 12/05/2023
Description: PH01; Vertical Delineation Sampling
View: North



Photograph 2 Date: 12/05/2023
Description: Release Area
View: East



Photograph 3 Date: 12/05/2023
Description: PH02; Vertical Delineation Sampling
View: Northwest



Photograph 4 Date: 12/05/2023
Description: PH03; Vertical Delineation Sampling
View: Northwest



Photographic Log

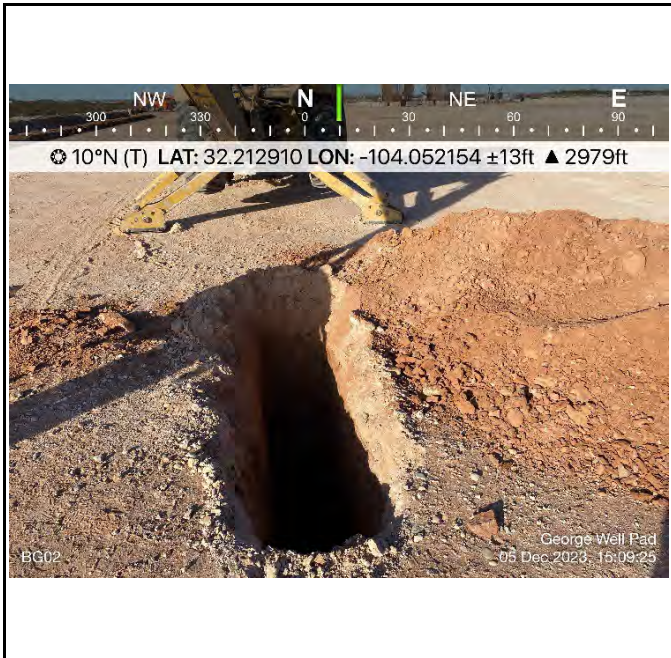
Matador Production Company

George Well Pad

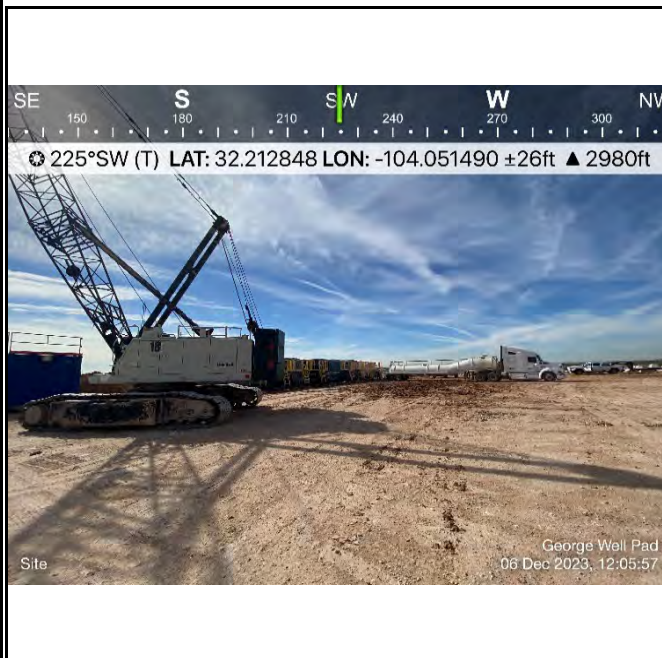
nAPP2333038378



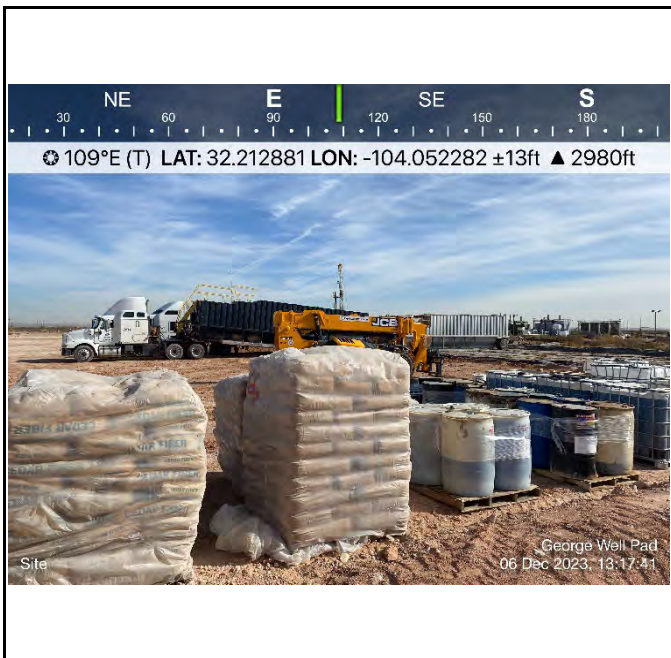
Photograph 5 Date: 12/05/2023
Description: Vertical Delineation Sampling
View: North



Photograph 6 Date: 12/05/2023
Description: Vertical Delineation Sampling
View: North



Photograph 7 Date: 12/06/2023
Description: Equipment on location
View: Southwest



Photograph 8 Date: 12/06/2023
Description: Equipment on location
View: East



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 9

Date: 06/10/2024

Description: Depth to Water Determination

View: East



Photograph 10

Date: 06/10/2024

Description: Depth to Water Determination

View: Southeast



Photograph 11

Date: 06/10/2024

Description: Depth to Water Determination

View: West



Photograph 12

Date: 06/10/2024

Description: Depth to Water Determination

View: Northwest



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 13
Description: Excavation
View: North

Date: 10/01/2024



Photograph 14
Description: Excavation
View: Southwest

Date: 10/01/2024



Photograph 15
Description: Excavation
View: Southeast

Date: 10/01/2024



Photograph 16
Description: Excavation
View: South

Date: 10/01/2024



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 17
Description: Excavation
View: South

Date: 10/02/2024



Photograph 18
Description: Excavation
View: South

Date: 10/02/2024



Photograph 19
Description: Excavation
View: Southeast

Date: 10/02/2024



Photograph 20
Description: Excavation
View: South

Date: 10/02/2024

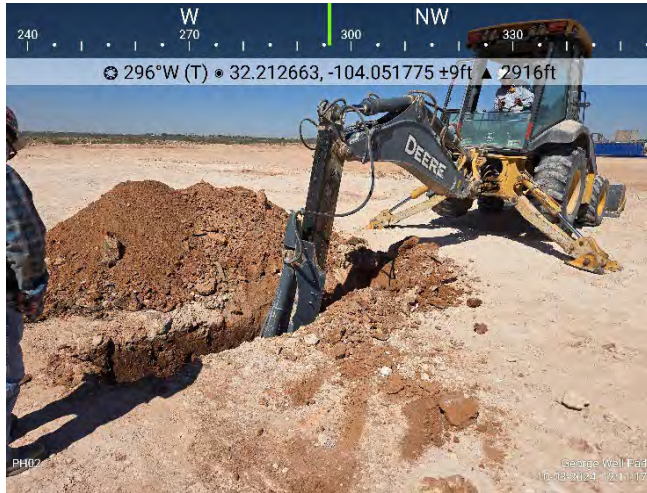


Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



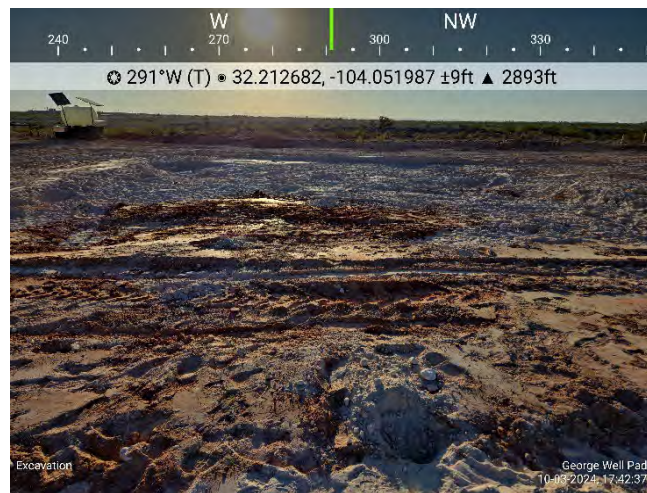
Photograph 21
Description: PH02
View: Northwest

Date: 10/03/2024



Photograph 22
Description: PH02
View: East

Date: 10/03/2024



Photograph 23
Description: Excavation
View: West

Date: 10/03/2024



Photograph 24
Description: Excavation
View: Southeast

Date: 10/03/2024



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378

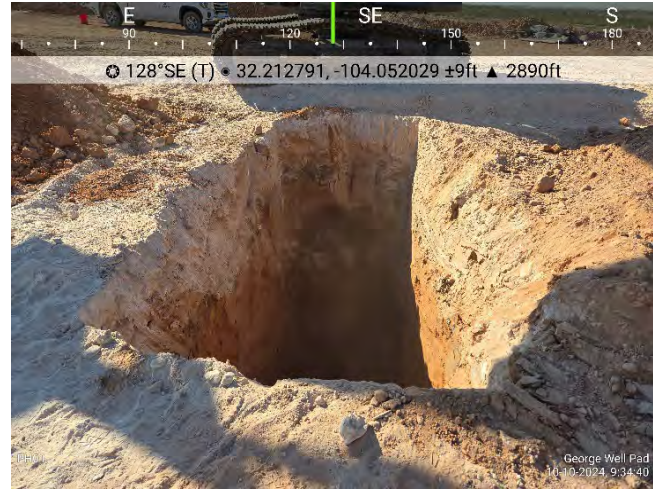


Photograph 25

Date: 10/10/2024

Description: PH01

View: Northeast

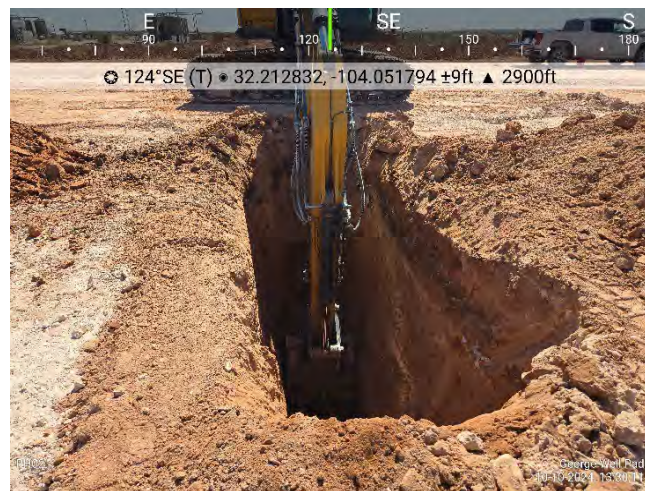


Photograph 26

Date: 10/10/2024

Description: PH01

View: Southeast



Photograph 27

Date: 10/10/2024

Description: PH02

View: Southeast



Photograph 28

Date: 10/10/2024

Description: PH02

View: East

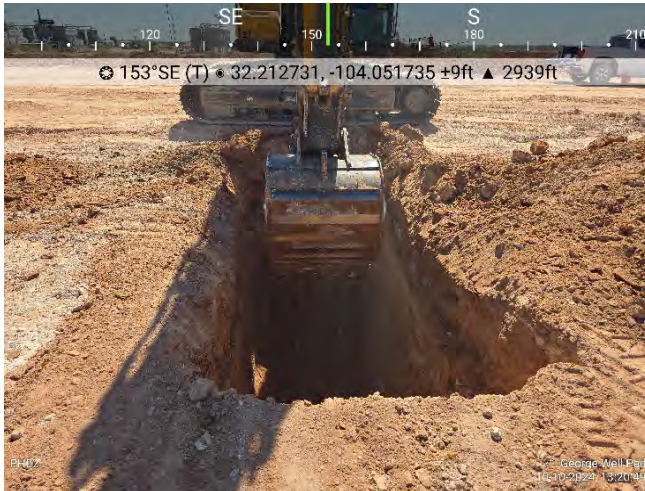


Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378

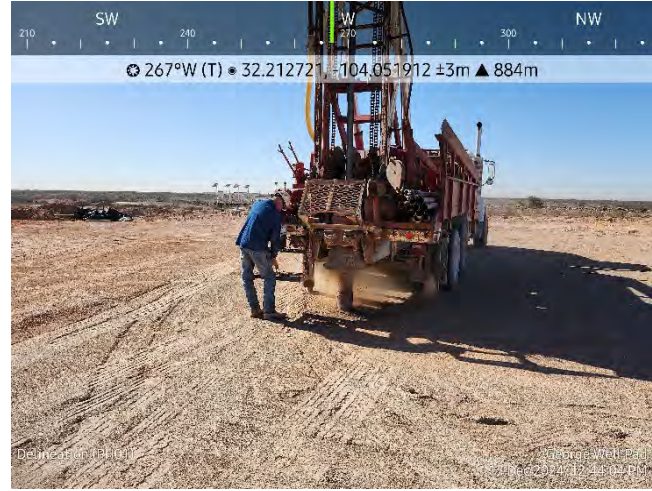


Photograph 25

Date: 10/10/2024

Description: PH01

View: Southeast



Photograph 26

Date: 12/17/2024

Description: PH01

View: West

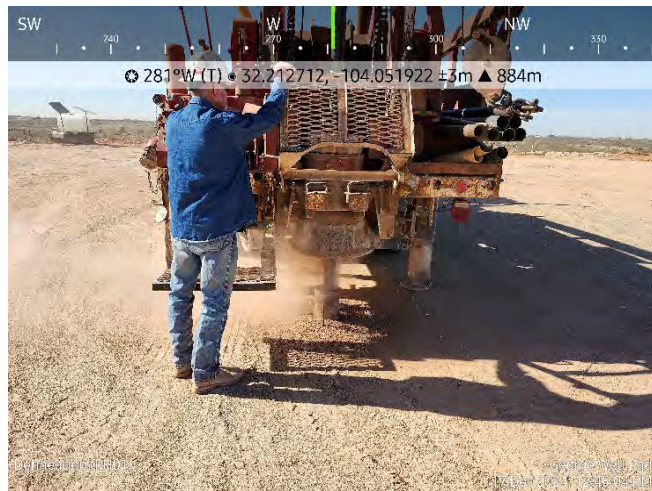


Photograph 27

Date: 12/17/2024

Description: PH01

View: West



Photograph 28

Date: 12/17/2024

Description: PH01

View: West



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: George Well Pad

Work Order: E312049

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312049
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

The analytical test results summarized in this report with the Project Name: George Well Pad 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: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 11:23
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03-0'	E312049-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-1'	E312049-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-2'	E312049-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
---	---	---

PH03-0'

E312049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.8 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.8 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	81.3 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	381	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 11:23:46AM

PH03-1'

E312049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	81.8 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	442	100	5	12/11/23	12/13/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 11:23:46AM

PH03-2'

E312049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	80.5 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	454	200	10	12/11/23	12/13/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349098-BLK1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.4	70-130			

LCS (2349098-BS1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

Matrix Spike (2349098-MS1)

Source: E312044-27

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.69	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			

Matrix Spike Dup (2349098-MSD1)

Source: E312044-27

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.36	0.0250	5.00	ND	87.1	54-133	7.30	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133	6.38	20	
Toluene	4.68	0.0250	5.00	ND	93.6	61-130	6.74	20	
o-Xylene	4.77	0.0250	5.00	ND	95.3	63-131	6.63	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	6.23	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	6.36	20	
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349098-BLK1) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

LCS (2349098-BS2) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2349098-MS2) Source: E312044-27 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0	ND	83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2349098-MSD2) Source: E312044-27 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130	1.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
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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 (2350045-BLK1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

LCS (2350045-BS1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			

Matrix Spike (2350045-MS1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			

Matrix Spike Dup (2350045-MSD1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.4	38-132	3.49	20	
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350010-BLK1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	ND	20.0							
LCS (2350010-BS1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2350010-MS1)					Source: E312047-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2350010-MSD1)					Source: E312047-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	252	20.0	250	ND	101	80-120	0.999	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 11:23

- 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: George Well Pad				Attention: Matador Production Company				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Ashley Giovengo				Address: on file				E312049		23052-0001					X								
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method											RCRA				
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398				TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX	State					
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com														NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com																		x					
Report due by:																		Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
13:16	12/5/2023	Soil	1	PH03 - 0'	1										X								
13:17	12/5/2023	Soil	1	PH03 - 1'	2										X								
13:20	12/5/2023	Soil	1	PH03 - 2'	3										X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com - samples 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															
Ethan Haft		12/7/23	0700	Michelle Gayle		12-7-23	1130	Received on ice: (Y) / N															
Michelle Gayle		12-7-23	1730	Andrew Haff		12-8-23	0700	T1 T2 T3															
Andrew Haff		12-8-23	1300	Andrew Haff		12-8-23	1300	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 Analytical Laboratory

Printed: 12/11/2023 12:28:28PM

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:	12/08/23 13:00	Work Order ID:	E312049
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:31	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/18/23 17:00 (6 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312050

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312050
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
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ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 13:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04-0'	E312050-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-1'	E312050-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-4'	E312050-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 1:51:44PM
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PH04-0'

E312050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.1 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350043	
Diesel Range Organics (C10-C28)	95.7	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
<i>Surrogate: n-Nonane</i>	94.2 %	50-200		12/12/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	668	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 1:51:44PM

PH04-1'

E312050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349099
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350043
Diesel Range Organics (C10-C28)	99.1	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	76.0	50.0	1	12/12/23	12/14/23	
Surrogate: n-Nonane	97.0 %	50-200		12/12/23	12/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2350011
Chloride	386	200	10	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 1:51:44PM

PH04-4'

E312050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Benzene	ND	0.0250	1	12/08/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/13/23	
Toluene	ND	0.0250	1	12/08/23	12/13/23	
o-Xylene	ND	0.0250	1	12/08/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.2 %</i>	<i>70-130</i>		<i>12/08/23</i>	<i>12/13/23</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>90.8 %</i>	<i>70-130</i>		<i>12/08/23</i>	<i>12/13/23</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
<i>Surrogate: n-Nonane</i>	<i>96.4 %</i>	<i>50-200</i>		<i>12/12/23</i>	<i>12/14/23</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	ND	200	10	12/11/23	12/12/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349099-BLK1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

LCS (2349099-BS1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.97	0.0250	5.00		99.3	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

Matrix Spike (2349099-MS1)

Source: E312047-07

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			

Matrix Spike Dup (2349099-MSD1)

Source: E312047-07

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	5.57	0.0250	5.00	ND	111	54-133	8.23	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	8.78	20	
Toluene	5.55	0.0250	5.00	ND	111	61-130	8.42	20	
o-Xylene	5.53	0.0250	5.00	ND	111	63-131	8.08	20	
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	8.63	20	
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	8.44	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349099-BLK1) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			

LCS (2349099-BS2) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike (2349099-MS2) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2349099-MSD2) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130	11.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 1:51:44PM
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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 (2350043-BLK1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

LCS (2350043-BS1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike (2350043-MS1)					Source: E312063-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike Dup (2350043-MSD1)					Source: E312063-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	6.93	20	
Surrogate: n-Nonane	51.8		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 1:51:44PM
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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 (2350011-BLK1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	ND	20.0							
LCS (2350011-BS1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2350011-MS1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	353	200	250	ND	141	80-120			M5
Matrix Spike Dup (2350011-MSD1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	359	200	250	ND	144	80-120	1.64	20	M5

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 13:51

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



[illegible]

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:33:32PM

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:	12/08/23 13:00	Work Order ID:	E312050
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:38	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312053

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312053
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 16:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0.5'	E312053-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH01-1'	E312053-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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PH01-0.5'

E312053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	60.6	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	84.1 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350035	
Chloride	403	20.0	1	12/12/23	12/15/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 4:29:34PM

PH01-1'

E312053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.1 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	84.8 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350035	
Chloride	827	200	10	12/12/23	12/15/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1)

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2350004-BS1)

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike (2350004-MS1)

Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike Dup (2350004-MSD1)

Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

LCS (2350004-BS2) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

Matrix Spike (2350004-MS2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			

Matrix Spike Dup (2350004-MSD2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		88.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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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 (2350045-BLK1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

LCS (2350045-BS1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			

Matrix Spike (2350045-MS1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			

Matrix Spike Dup (2350045-MSD1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.4	38-132	3.49	20	
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350035-BLK1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Chloride	ND	20.0							
LCS (2350035-BS1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2350035-MS1)					Source: E312048-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Chloride	730	20.0	250	458	109	80-120			
Matrix Spike Dup (2350035-MSD1)					Source: E312048-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Chloride	732	20.0	250	458	110	80-120	0.360	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 16:29

- 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.



Project Information

Chain of Custody

Page 1 of 1

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:49:24PM

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:	12/08/23 13:00	Work Order ID:	E312053
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:03	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312055

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312055
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 15:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E312055-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS02-0'	E312055-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS03-0'	E312055-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS04-0'	E312055-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS05-0'	E312055-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS06-0'	E312055-06A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS07-0'	E312055-07A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS08-0'	E312055-08A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS01-0'

E312055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane	95.9 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350018
Chloride	183	20.0	1	12/13/23	12/14/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 3:14:49PM
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SS02-0'

E312055-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.2 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	95.2 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	391	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS03-0'

E312055-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.2 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	94.1 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	610	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS04-0'

E312055-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	634	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS05-0'

E312055-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.4 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	248	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS06-0'

E312055-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.7 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	97.2 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	3870	200	10	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS07-0'

E312055-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.5 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	93.8 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	834	40.0	2	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS08-0'

E312055-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350031
Diesel Range Organics (C10-C28)	75.3	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	88.3	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>						
	94.1 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350018
Chloride	194	20.0	1	12/13/23	12/14/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1)

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2350004-BS1)

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike (2350004-MS1)

Source: E312053-02

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike Dup (2350004-MSD1)

Source: E312053-02

Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 3:14:49PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

LCS (2350004-BS2) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

Matrix Spike (2350004-MS2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			

Matrix Spike Dup (2350004-MSD2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		88.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 3:14:49PM
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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 (2350031-BLK1)					Prepared: 12/12/23 Analyzed: 12/13/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			

LCS (2350031-BS1)					Prepared: 12/12/23 Analyzed: 12/13/23				
Diesel Range Organics (C10-C28)	222	25.0	250		89.0	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike (2350031-MS1)					Source: E312055-05		Prepared: 12/12/23 Analyzed: 12/13/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132			
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

Matrix Spike Dup (2350031-MSD1)					Source: E312055-05		Prepared: 12/12/23 Analyzed: 12/13/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132	0.0299	20	
Surrogate: n-Nonane	51.5		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 3:14:49PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350018-BLK1)					Prepared: 12/11/23 Analyzed: 12/14/23				
Chloride	ND	20.0							
LCS (2350018-BS1)					Prepared: 12/11/23 Analyzed: 12/14/23				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2350018-MS1)					Source: E312055-04		Prepared: 12/11/23 Analyzed: 12/14/23		
Chloride	823	20.0	250	634	75.3	80-120			M2
Matrix Spike Dup (2350018-MSD1)					Source: E312055-04		Prepared: 12/11/23 Analyzed: 12/14/23		
Chloride	821	20.0	250	634	74.5	80-120	0.240	20	M2

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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 15:14

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Client: Matador Production Company		Bill To		Lab Use Only		TAT				EPA Program	
Project: George Well Pad		Attention: Matador Production Company		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E312655		Job Number		23052-0001		X	
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method						RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398									
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									
Email: agiovengo@ensolum.com											
Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC	NM	GDOC	TX	Remarks
11:33	12/5/2023	Soil	1	SS01 - 0'	1						X				
11:35	12/5/2023	Soil	1	SS02 - 0'	2						X				
12:55	12/6/2023	Soil	1	SS03 - 0'	3						X				
12:18	12/6/2023	Soil	1	SS04 - 0'	4						X				
13:20	12/6/2023	Soil	1	SS05 - 0'	5						X				
12:28	12/6/2023	Soil	1	SS06 - 0'	6						X				
11:44	12/5/2023	Soil	1	SS07 - 0'	7						X				
11:45	12/5/2023	Soil	1	SS08 - 0'	8						X				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples 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					
<i>Ethan Haft</i>	12/7/23	0700	<i>Michaela Gough</i>	12-7-23	1130	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>Michaela Gough</i>	12-7-23	1730	<i>Andrew Russo</i>	12-8-23	0700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>Andrew Russo</i>	12-8-23	1300	<i>Alvin</i>	12-8-23	1300	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: 12/11/2023 1:00:53PM

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:	12/08/23 13:00	Work Order ID:	E312055
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:20	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312056

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/18/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/18/23

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



Project Name: George Well Pad
Workorder: E312056
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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Laboratory Technical Representative
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ljjarboe@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/23 09:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-0.5'	E312056-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-1'	E312056-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-2'	E312056-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-3'	E312056-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-4'	E312056-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/2023 9:40:42AM
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PH02-0.5'

E312056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.1 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350071	
Diesel Range Organics (C10-C28)	1210	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>		80.2 %	50-200	12/14/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350015	
Chloride	1370	40.0	2	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42AM

PH02-1'

E312056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.2 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350071	
Diesel Range Organics (C10-C28)	555	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>		75.8 %	50-200	12/14/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350015	
Chloride	1230	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42AM

PH02-2'

E312056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	168	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	896	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42AM

PH02-3'

E312056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.1 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.0 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350071	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>	94.9 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350015	
Chloride	572	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42AM

PH02-4'

E312056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	765	200	10	12/11/23	12/11/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350012-BLK1) Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

LCS (2350012-BS1) Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike (2350012-MS1) Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.64	0.0250	5.00	ND	92.9	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2350012-MSD1) Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.87	0.0250	5.00	ND	97.4	54-133	4.77	20	
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133	5.02	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.79	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	4.86	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	4.92	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131	4.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/2023 9:40:42AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350012-BLK1)

Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

LCS (2350012-BS2)

Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2350012-MS2)

Source: E312059-01

Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			

Matrix Spike Dup (2350012-MSD2)

Source: E312059-01

Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.3	70-130	0.450	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/2023 9:40:42AM
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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 (2350071-BLK1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS (2350071-BS1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike (2350071-MS1)					Source: E312056-04		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike Dup (2350071-MSD1)					Source: E312056-04		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	0.292	20	
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/2023 9:40:42AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350015-BLK1)					Prepared: 12/11/23 Analyzed: 12/11/23				
Chloride	ND	20.0							
LCS (2350015-BS1)					Prepared: 12/11/23 Analyzed: 12/11/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2350015-MS1)					Source: E312060-02		Prepared: 12/11/23 Analyzed: 12/11/23		
Chloride	276	200	250	ND	110	80-120			
Matrix Spike Dup (2350015-MSD1)					Source: E312060-02		Prepared: 12/11/23 Analyzed: 12/11/23		
Chloride	271	200	250	ND	108	80-120	1.79	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/23 09:40

- 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: George Well Pad					Attention: Matador Production Company		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E312050		23062-0001						X				
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method												RCRA
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com														x					
Report due by:																		Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
12:00	12/5/2023	Soil	1	PH02 - 0.5'	1									X					
12:03	12/5/2023	Soil	1	PH02 - 1'	2									X					
12:04	12/5/2023	Soil	1	PH02 - 2'	3									X					
12:05	12/5/2023	Soil	1	PH02 - 3'	4									X					
12:25	12/5/2023	Soil	1	PH02 - 4'	5									X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples 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]		12/7/23	0700	[Signature]		12-7-23	1130	Received on ice: (Y) N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		12-7-23	1730	[Signature]		12-8-23	0700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		12-8-23	1300	[Signature]		12-8-23	1300	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: 12/11/2023 1:04:15PM

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:	12/08/23 13:00	Work Order ID:	E312056
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:24	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E410015

Job Number: 23003-0002

Received: 10/3/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/24

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: 10/9/24

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



Project Name: George Well Pad
Workorder: E410015
Date Received: 10/3/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2024 5:00:00AM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/24 13:35
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-6"	E410015-01A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS02-6"	E410015-02A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS03-6"	E410015-03A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS04-6"	E410015-04A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS05-4"	E410015-05A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS06-4"	E410015-06A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS07-4"	E410015-07A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS09-4"	E410015-08A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS10-4"	E410015-09A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS11-4"	E410015-10A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS01-6"

E410015-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	3140	250	10	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	5180	500	10	10/03/24	10/04/24	
Surrogate: n-Nonane	107 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	258	100	5	10/03/24	10/03/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 1:35:12PM

FS02-6"

E410015-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2440085
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2440085
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2440070
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/03/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2440087
Chloride	1250	200	10	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS03-6"

E410015-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	106 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	4450	200	10	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS04-6"

E410015-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	99.1 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	2330	200	10	10/03/24	10/03/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 1:35:12PM

FS05-4"

E410015-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	54.9	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>		98.3 %	50-200	10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	4760	200	10	10/03/24	10/03/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 1:35:12PM

FS06-4"

E410015-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	54.6	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/03/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	4320	200	10	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS07-4"

E410015-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	4960	200	10	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS09-4"

E410015-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	89.5	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	3470	200	10	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS10-4"

E410015-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	25.0	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	102 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	3430	100	5	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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FS11-4"

E410015-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440085	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440070	
Diesel Range Organics (C10-C28)	151	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	103 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2440087	
Chloride	3000	200	10	10/03/24	10/03/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 1:35:12PM

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 (2440085-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

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 7.77 8.00 97.2 70-130

LCS (2440085-BS1) Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.89 8.00 98.7 70-130

Matrix Spike (2440085-MS1) Source: E410015-07 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.36	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133			
Toluene	5.28	0.0250	5.00	ND	106	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			

Surrogate: 4-Bromochlorobenzene-PID 8.00 8.00 100 70-130

Matrix Spike Dup (2440085-MSD1) Source: E410015-07 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.26	0.0250	5.00	ND	105	54-133	1.83	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.50	20	
Toluene	5.18	0.0250	5.00	ND	104	61-130	1.90	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	1.67	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.43	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	1.51	20	

Surrogate: 4-Bromochlorobenzene-PID 7.96 8.00 99.5 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 1:35:12PM

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 (2440085-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

LCS (2440085-BS2) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			

Matrix Spike (2440085-MS2) Source: E410015-07 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike Dup (2440085-MSD2) Source: E410015-07 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.6	70-130	1.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 1:35:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440070-BLK1)					Prepared: 10/03/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS (2440070-BS1)					Prepared: 10/03/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike (2440070-MS1)					Source: E410015-01		Prepared: 10/03/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	3660	250	250	3140	207	38-132			M4
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike Dup (2440070-MSD1)					Source: E410015-01		Prepared: 10/03/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	3070	250	250	3140	NR	38-132	17.6	20	M4
Surrogate: n-Nonane	54.7		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 1:35:12PM
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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 (2440087-BLK1)					Prepared: 10/03/24 Analyzed: 10/03/24				
Chloride	ND	20.0							
LCS (2440087-BS1)					Prepared: 10/03/24 Analyzed: 10/03/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2440087-MS1)					Source: E410012-02		Prepared: 10/03/24 Analyzed: 10/03/24		
Chloride	532	20.0	250	271	105	80-120			
Matrix Spike Dup (2440087-MSD1)					Source: E410012-02		Prepared: 10/03/24 Analyzed: 10/03/24		
Chloride	522	20.0	250	271	100	80-120	1.97	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/09/24 13:35

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

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

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: <u>George Well Pad</u>				Address: 3122 National Parks Hwy		<u>E410015</u>	<u>23003-0002</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
13:43	10/1/24	Soil	1	FS01-6"		1						X					
13:49				FS02-6"		2						X					
13:54				FS03-6"		3						X					
14:00				FS04-6"		4						X					
14:05				FS05-4"		5						X					
15:56				FS06-4"		6						X					
15:58				FS07-4"		7						X					
16:04				FS09-4"		8						X					
16:05				FS10-4"		9						X					
16:07				FS11-4"		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 10/3/2024 9:49:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/03/24 05:00	Work Order ID:	E410015
Phone:	(972) 371-5200	Date Logged In:	10/03/24 08:07	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E410034

Job Number: 23003-0002

Received: 10/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/24

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: 10/9/24

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



Project Name: George Well Pad
Workorder: E410034
Date Received: 10/4/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2024 8:00:00AM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/24 14:20
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-6"	E410034-01A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS12-4"	E410034-02A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS13-4"	E410034-03A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS14-4"	E410034-04A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS15-4"	E410034-05A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS16-4'	E410034-06A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:20:53PM
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FS08-6"

E410034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene		96.0 %	70-130	10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	10/04/24	10/08/24	
Surrogate: Toluene-d8		101 %	70-130	10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene		96.0 %	70-130	10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	10/04/24	10/08/24	
Surrogate: Toluene-d8		101 %	70-130	10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane		115 %	50-200	10/04/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	2090	200	10	10/04/24	10/04/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:20:53PM

FS12-4"

E410034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	99.6 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	99.6 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	108 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	2630	200	10	10/04/24	10/04/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:20:53PM

FS13-4"

E410034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	111 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	1240	200	10	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:20:53PM
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FS14-4"

E410034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/07/24	
Toluene	ND	0.0250	1	10/04/24	10/07/24	
o-Xylene	ND	0.0250	1	10/04/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/07/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/04/24	10/07/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/04/24	10/07/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/07/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/04/24	10/07/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/04/24	10/07/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	112 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	280	200	10	10/04/24	10/04/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:20:53PM

FS15-4"

E410034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	34.3	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	114 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	700	200	10	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:20:53PM
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FS16-4'
E410034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	118	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	74.3	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	124 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	1110	40.0	2	10/04/24	10/04/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:20:53PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2440106-BLK1) Prepared: 10/04/24 Analyzed: 10/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2440106-BS1) Prepared: 10/04/24 Analyzed: 10/07/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.6	70-130			
Toluene	2.45	0.0250	2.50		97.9	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2440106-MS1) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.49	0.0250	2.50	ND	99.4	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.58	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2440106-MSD1) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Benzene	2.51	0.0250	2.50	ND	100	48-131	0.794	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	0.514	27	
Toluene	2.50	0.0250	2.50	ND	99.8	48-130	0.422	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	0.930	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	0.0988	27	
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135	0.244	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:20:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2440106-BLK1) Prepared: 10/04/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2440106-BS2) Prepared: 10/04/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.6	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2440106-MS2) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2440106-MSD2) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.4	70-130	2.03	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:20:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2440098-BLK1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2440098-BS1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike (2440098-MS1)					Source: E410034-04		Prepared: 10/04/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike Dup (2440098-MSD1)					Source: E410034-04		Prepared: 10/04/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	0.992	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:20:53PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440103-BLK1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Chloride	ND	20.0							
LCS (2440103-BS1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2440103-MS1)					Source: E410034-05		Prepared: 10/04/24 Analyzed: 10/04/24		
Chloride	938	200	250	700	95.3	80-120			
Matrix Spike Dup (2440103-MSD1)					Source: E410034-05		Prepared: 10/04/24 Analyzed: 10/04/24		
Chloride	936	200	250	700	94.5	80-120	0.219	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/09/24 14:20

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

[illegible]**envirotech**

Envirotech Analytical Laboratory

Printed: 10/4/2024 10:00:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/04/24 08:00	Work Order ID:	E410034
Phone:	(972) 371-5200	Date Logged In:	10/03/24 16:26	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	10/10/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E410046

Job Number: 23003-0002

Received: 10/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/10/24

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: 10/10/24

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



Project Name: George Well Pad
Workorder: E410046
Date Received: 10/7/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2024 5:00:00AM, under the Project Name: George Well Pad.

The analytical test results summarized in this report with the Project Name: George Well Pad 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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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/24 09:19
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS17 - 6"	E410046-01A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS18 - 4"	E410046-02A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS19 - 4"	E410046-03A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS20 - 4"	E410046-04A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS21 - 4"	E410046-05A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS22 - 4"	E410046-06A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS23 - 4"	E410046-07A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH01 - 6'	E410046-08A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH01 - 8'	E410046-09A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH01 - 10'	E410046-10A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH01 - 12'	E410046-11A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH01 - 13'	E410046-12A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH02 - 6'	E410046-13A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH02 - 8'	E410046-14A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH02 - 10'	E410046-15A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH02 - 12'	E410046-16A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
PH02 - 13'	E410046-17A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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FS17 - 6"

E410046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/08/24	
Toluene	ND	0.0250	1	10/07/24	10/08/24	
o-Xylene	ND	0.0250	1	10/07/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/08/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
Surrogate: n-Nonane	112 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	797	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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FS18 - 4"

E410046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/08/24	
Toluene	ND	0.0250	1	10/07/24	10/08/24	
o-Xylene	ND	0.0250	1	10/07/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/08/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
Surrogate: n-Nonane	103 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	401	200	10	10/07/24	10/07/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2024 9:19:58AM

FS19 - 4"

E410046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/08/24	
Toluene	ND	0.0250	1	10/07/24	10/08/24	
o-Xylene	ND	0.0250	1	10/07/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	609	200	10	10/07/24	10/07/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2024 9:19:58AM

FS20 - 4"**E410046-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/08/24	
Toluene	ND	0.0250	1	10/07/24	10/08/24	
o-Xylene	ND	0.0250	1	10/07/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	514	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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FS21 - 4"

E410046-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/08/24	
Toluene	ND	0.0250	1	10/07/24	10/08/24	
o-Xylene	ND	0.0250	1	10/07/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.1 %	70-130		10/07/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	959	100	5	10/07/24	10/07/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2024 9:19:58AM

FS22 - 4"

E410046-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.9 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	200	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	108	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	890	100	5	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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FS23 - 4"

E410046-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	0.0897	0.0500	1	10/07/24	10/09/24	
Total Xylenes	0.0897	0.0250	1	10/07/24	10/09/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.9 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	87.5	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
Surrogate: n-Nonane	118 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	527	100	5	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH01 - 6'

E410046-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	2080	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH01 - 8'

E410046-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	2130	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH01 - 10'
E410046-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
Surrogate: n-Nonane	112 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	1820	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH01 - 12'
E410046-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
Surrogate: n-Nonane	118 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	1350	100	5	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH01 - 13'
E410046-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.9 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	1260	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH02 - 6'

E410046-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.9 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	27.5	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	5570	400	20	10/07/24	10/07/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2024 9:19:58AM

PH02 - 8'

E410046-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/07/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/07/24	10/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	6870	400	20	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH02 - 10'
E410046-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	26.9	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	7000	400	20	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH02 - 12'
E410046-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.3 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
Surrogate: n-Nonane	121 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	4540	200	10	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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PH02 - 13'
E410046-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Benzene	ND	0.0250	1	10/07/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/09/24	
Toluene	ND	0.0250	1	10/07/24	10/09/24	
o-Xylene	ND	0.0250	1	10/07/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2441013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.7 %	70-130		10/07/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441005	
Diesel Range Organics (C10-C28)	68.7	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	57.4	50.0	1	10/07/24	10/08/24	
Surrogate: n-Nonane	111 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441009	
Chloride	5320	200	10	10/07/24	10/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2024 9:19:58AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441013-BLK1) Prepared: 10/07/24 Analyzed: 10/08/24

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	7.13		8.00		89.1	70-130			

LCS (2441013-BS1) Prepared: 10/07/24 Analyzed: 10/08/24

Benzene	4.18	0.0250	5.00		83.7	70-130			
Ethylbenzene	4.23	0.0250	5.00		84.6	70-130			
Toluene	4.25	0.0250	5.00		85.1	70-130			
o-Xylene	4.22	0.0250	5.00		84.5	70-130			
p,m-Xylene	8.60	0.0500	10.0		86.0	70-130			
Total Xylenes	12.8	0.0250	15.0		85.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

Matrix Spike (2441013-MS1) Source: E410046-05 Prepared: 10/07/24 Analyzed: 10/08/24

Benzene	4.51	0.0250	5.00	ND	90.3	54-133			
Ethylbenzene	4.52	0.0250	5.00	ND	90.4	61-133			
Toluene	4.58	0.0250	5.00	ND	91.6	61-130			
o-Xylene	4.53	0.0250	5.00	ND	90.5	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

Matrix Spike Dup (2441013-MSD1) Source: E410046-05 Prepared: 10/07/24 Analyzed: 10/08/24

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	6.73	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.9	61-133	6.87	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	6.53	20	
o-Xylene	4.85	0.0250	5.00	ND	97.1	63-131	6.96	20	
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131	6.82	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131	6.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2024 9:19:58AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441013-BLK1) Prepared: 10/07/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

LCS (2441013-BS2) Prepared: 10/07/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.15		8.00		102	70-130			

Matrix Spike (2441013-MS2) Source: E410046-05 Prepared: 10/07/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		8.00		101	70-130			

Matrix Spike Dup (2441013-MSD2) Source: E410046-05 Prepared: 10/07/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.3	70-130	2.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2024 9:19:58AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441005-BLK1) Prepared: 10/07/24 Analyzed: 10/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.7		50.0		119	50-200			

LCS (2441005-BS1) Prepared: 10/07/24 Analyzed: 10/07/24

Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike (2441005-MS1) Source: E410046-08 Prepared: 10/07/24 Analyzed: 10/07/24

Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	55.8		50.0		112	50-200			

Matrix Spike Dup (2441005-MSD1) Source: E410046-08 Prepared: 10/07/24 Analyzed: 10/07/24

Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132	1.31	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2024 9:19:58AM
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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 (2441009-BLK1)						Prepared: 10/07/24 Analyzed: 10/07/24			
Chloride	ND	20.0							
LCS (2441009-BS1)						Prepared: 10/07/24 Analyzed: 10/07/24			
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2441009-MS1)				Source: E410046-07		Prepared: 10/07/24 Analyzed: 10/07/24			
Chloride	796	100	250	527	107	80-120			
Matrix Spike Dup (2441009-MSD1)				Source: E410046-07		Prepared: 10/07/24 Analyzed: 10/07/24			
Chloride	813	100	250	527	114	80-120	2.04	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/24 09:19

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

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

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



Chain of Custody

Page 1 of 2

Received by OCD: 1/13/2025 9:07:18 AM

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Page 175 of 374

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E410046		Job Number 23003.002		1D 2D 3D Std		NM CO UT TX					
Project: George Well Pad				Address: 3122 National Parks Hwy								<input checked="" type="checkbox"/>					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:35	10/3/24	Soil	1	FS17 - 6"		1						X					
16:02				FS18 - 4"		2						X					
16:05				FS19 - 4"		3						X					
16:07				FS20 - 4"		4						X					
16:10				FS21 - 4"		5						X					
16:15				FS22 - 4"		6						X					
16:12				FS23 - 4"		7						X					
14:42				PH01 - 6'		8						X					
15:01				PH01 - 8'		9						X					
15:08				PH01 - 10'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <input checked="" type="radio"/> Y / N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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 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.																	



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Page 175 of 374

Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: <u>George Well Pad</u>				Address: 3122 National Parks Hwy		E 410046		Job Number				23003-0002					
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agioveno@ensolum.com																	
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
15:32	10/3/24	Soil	1	PH01-12'		11						X					
15:34				PH01-13'		12						X					
11:56				PH02-6'		13						X					
12:13				PH02-9'		14						X					
13:05				PH02-10'		15						X					
13:43				PH02-12'		16						X					
14:08				PH02-13'		17						X					
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Envirotech Analytical Laboratory

Printed: 10/7/2024 8:51:49AM

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:	10/07/24 05:00	Work Order ID:	E410046
Phone:	(972) 371-5200	Date Logged In:	10/04/24 13:50	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	10/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E410153

Job Number: 23003-0002

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/22/24

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: 10/22/24

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



Project Name: George Well Pad
Workorder: E410153
Date Received: 10/16/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 8:00:00AM, under the Project Name: George Well Pad.

The analytical test results summarized in this report with the Project Name: George Well Pad 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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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/24 14:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-0.5'	E410153-01A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/22/2024 2:18:53PM
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FS01-0.5'

E410153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2442097	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2442097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.2 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442106	
Diesel Range Organics (C10-C28)	42.0	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane	101 %	50-200		10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442095	
Chloride	287	100	5	10/16/24	10/17/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2024 2:18:53PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442097-BLK1) Prepared: 10/16/24 Analyzed: 10/16/24

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	7.03		8.00		87.9	70-130			

LCS (2442097-BS1) Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8	70-130			

Matrix Spike (2442097-MS1) Source: E410152-14 Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	10.1	0.0500	10.0	ND	101	54-133			
Ethylbenzene	9.86	0.0500	10.0	ND	98.6	61-133			
Toluene	10.0	0.0500	10.0	ND	100	61-130			
o-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
p,m-Xylene	20.0	0.100	20.0	ND	99.9	63-131			
Total Xylenes	29.8	0.0500	30.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.2		16.0		88.8	70-130			

Matrix Spike Dup (2442097-MSD1) Source: E410152-14 Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	10.3	0.0500	10.0	ND	103	54-133	1.60	20	
Ethylbenzene	9.96	0.0500	10.0	ND	99.6	61-133	1.08	20	
Toluene	10.2	0.0500	10.0	ND	102	61-130	1.34	20	
o-Xylene	9.93	0.0500	10.0	ND	99.3	63-131	1.13	20	
p,m-Xylene	20.2	0.100	20.0	ND	101	63-131	1.11	20	
Total Xylenes	30.1	0.0500	30.0	ND	100	63-131	1.12	20	
Surrogate: 4-Bromochlorobenzene-PID	14.1		16.0		88.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2024 2:18:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442097-BLK1) Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

LCS (2442097-BS2) Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike (2442097-MS2) Source: E410152-14 Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	92.0	40.0	100	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.0		16.0		100	70-130			

Matrix Spike Dup (2442097-MSD2) Source: E410152-14 Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	89.0	40.0	100	ND	89.0	70-130	3.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.8		16.0		98.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2024 2:18:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442106-BLK1)					Prepared: 10/16/24 Analyzed: 10/17/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2442106-BS1)					Prepared: 10/16/24 Analyzed: 10/17/24				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2442106-MS1)					Source: E410161-24		Prepared: 10/16/24 Analyzed: 10/17/24		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike Dup (2442106-MSD1)					Source: E410161-24		Prepared: 10/16/24 Analyzed: 10/17/24		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	2.70	20	
Surrogate: n-Nonane	51.4		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2024 2:18:53PM

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 (2442095-BLK1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	ND	20.0							
LCS (2442095-BS1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2442095-MS1)					Source: E410154-04		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	298	20.0	250	41.7	102	80-120			
Matrix Spike Dup (2442095-MSD1)					Source: E410154-04		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	306	20.0	250	41.7	106	80-120	2.56	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/24 14:18

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 10/16/2024 10:51:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/16/24 08:00	Work Order ID:	E410153
Phone:	(972) 371-5200	Date Logged In:	10/15/24 15:16	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/22/24 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? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E412147

Job Number: 20046-0001

Received: 12/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/24

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: 12/20/24

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



Project Name: George Well Pad
Workorder: E412147
Date Received: 12/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2024 7:45:00AM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 20046-0001 Project Manager: Ashley Giovengo	Reported: 12/20/24 11:43
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-20'	E412147-01A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH02-24'	E412147-02A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH02-28'	E412147-03A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH02-32'	E412147-04A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH02-36'	E412147-05A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH02-40'	E412147-06A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 20046-0001 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:43:53AM
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PH02-20'

E412147-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
Surrogate: n-Nonane	114 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	4230	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 20046-0001 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:43:53AM
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PH02-24'

E412147-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	1660	200	10	12/19/24	12/19/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 20046-0001
Project Manager: Ashley Giovengo

Reported:
12/20/2024 11:43:53AM

PH02-28'

E412147-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2451073
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2451074
Chloride	4710	200	10	12/19/24	12/19/24	



Sample Data

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

Project Name: George Well Pad
Project Number: 20046-0001
Project Manager: Ashley Giovengo

Reported:
12/20/2024 11:43:53AM

PH02-32'

E412147-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2451073
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
<i>Surrogate: n-Nonane</i>						
	96.6 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2451074
Chloride	5470	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 20046-0001 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:43:53AM
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PH02-36'

E412147-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
Surrogate: n-Nonane	108 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	2900	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 20046-0001 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:43:53AM
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PH02-40'

E412147-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2451066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2451073
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/20/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		12/19/24	12/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2451074
Chloride	2580	200	10	12/19/24	12/19/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20046-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:43:53AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2451066-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

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	6.65		8.00		83.2	70-130			

LCS (2451066-BS1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.63		8.00		82.9	70-130			

LCS Dup (2451066-BSD1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	5.14	0.0250	5.00		103	70-130	0.331	20	
Ethylbenzene	5.00	0.0250	5.00		100	70-130	0.223	20	
Toluene	5.11	0.0250	5.00		102	70-130	0.00979	20	
o-Xylene	4.97	0.0250	5.00		99.4	70-130	0.491	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.277	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	0.347	20	
Surrogate: 4-Bromochlorobenzene-PID	6.70		8.00		83.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20046-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:43:53AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2451066-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

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

LCS (2451066-BS2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0		81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS Dup (2451066-BSD2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20046-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:43:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451073-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

LCS (2451073-BS1) Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2451073-MS1) Source: E412146-01 Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	520	25.0	250	314	82.2	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2451073-MSD1) Source: E412146-01 Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	529	25.0	250	314	85.7	38-132	1.63	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	20046-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:43:53AM

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 (2451074-BLK1)						Prepared: 12/19/24 Analyzed: 12/19/24			
Chloride	ND	20.0							
LCS (2451074-BS1)						Prepared: 12/19/24 Analyzed: 12/19/24			
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451074-BSD1)						Prepared: 12/19/24 Analyzed: 12/19/24			
Chloride	257	20.0	250		103	90-110	0.0397	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	20046-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/24 11:43

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

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

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



Page 1 of 1

envirotech

Envirotech Analytical Laboratory

Printed: 12/19/2024 12:12:38PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/19/24 07:45	Work Order ID:	E412147
Phone:	(972) 371-5200	Date Logged In:	12/18/24 16:28	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/20/24 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? No
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E412148

Job Number: 23003-0002

Received: 12/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/24

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: 12/20/24

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



Project Name: George Well Pad
Workorder: E412148
Date Received: 12/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2024 7:45:00AM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/24 11:46
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-20'	E412148-01A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH01-24'	E412148-02A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH01-28'	E412148-03A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
PH01-32'	E412148-04A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:46:24AM
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PH01-20'

E412148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/20/24	
Surrogate: n-Nonane	111 %	50-200		12/19/24	12/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	979	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:46:24AM
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PH01-24'

E412148-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/20/24	
Surrogate: n-Nonane	111 %	50-200		12/19/24	12/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	1290	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:46:24AM
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PH01-28'

E412148-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/20/24	
Surrogate: n-Nonane	116 %	50-200		12/19/24	12/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	978	200	10	12/19/24	12/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:46:24AM
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PH01-32'

E412148-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2451066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451073	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/24	12/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/20/24	
Surrogate: n-Nonane	104 %	50-200		12/19/24	12/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451074	
Chloride	421	200	10	12/19/24	12/19/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:46:24AM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2451066-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

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	6.65		8.00		83.2	70-130			

LCS (2451066-BS1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.63		8.00		82.9	70-130			

LCS Dup (2451066-BSD1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	5.14	0.0250	5.00		103	70-130	0.331	20	
Ethylbenzene	5.00	0.0250	5.00		100	70-130	0.223	20	
Toluene	5.11	0.0250	5.00		102	70-130	0.00979	20	
o-Xylene	4.97	0.0250	5.00		99.4	70-130	0.491	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.277	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	0.347	20	
Surrogate: 4-Bromochlorobenzene-PID	6.70		8.00		83.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:46:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2451066-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

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

LCS (2451066-BS2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0		81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS Dup (2451066-BSD2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/2024 11:46:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451073-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

LCS (2451073-BS1) Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2451073-MS1) Source: E412146-01 Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	520	25.0	250	314	82.2	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2451073-MSD1) Source: E412146-01 Prepared: 12/19/24 Analyzed: 12/19/24

Diesel Range Organics (C10-C28)	529	25.0	250	314	85.7	38-132	1.63	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/20/2024 11:46:24AM
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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 (2451074-BLK1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	ND	20.0							
LCS (2451074-BS1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451074-BSD1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	257	20.0	250		103	90-110	0.0397	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/20/24 11:46

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 Information								
Client: Matador Production Company								
Project: George Well Pad								
Project Manager: Ashley Giovengo								
Address: 3122 National Parks Hwy								
City, State, Zip: Carlsbad NM, 88220								
Phone: 575-988-0055								
Email: agiovengo@ensolum.com								
Invoice Information								
Company: Ensolum LLC								
Address: 3122 National Parks Hwy								
City, State, Zip: Carlsbad NM, 88220								
Phone: 575-988-0055								
Email: agiovengo@ensolum.com								
Miscellaneous:								
Lab Use Only								
Lab WO# E412148		Job Number 23003-0002		TAT 1D 2D 3D Std X				
Analysis and Method								
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals	EPA Program SDWA CWA RCRA Compliance Y or N PWSID #
								Remarks
Sample Information								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number		
C/H 10:52	12/17/2024	S	1	PH01 - 20'		1		
12:55	12/17/2024	S	1	PH01 - 24'		2		
12:58	12/17/2024	S	1	PH01 - 28'		3		
13:14	12/17/2024	S	1	PH01 - 32'		4		
Additional Instructions: Held on Ice. Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.								
Sampled by: Bowan Simmons, Chad Hamilton								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: P/N T1 T2 T3 AVG Temp °C 4
Michelle Gonzales		12/18/24	8:30	Michelle Gonzales		12-18-24	0830	
Michelle Gonzales		12-18-24	1600	Noe Soto		12-18-24	1600	
Noe Soto		12-18-24	2145	Noe Soto		12-18-24	0745	
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 Analytical Laboratory

Printed: 12/19/2024 12:13:10PM

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:	12/19/24 07:45	Work Order ID:	E412148
Phone:	(972) 371-5200	Date Logged In:	12/18/24 16:33	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/20/24 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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#); clinton.talley@matadorresources.com; [Jason Touchet](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Israel Estrella](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Wednesday, January 31, 2024 3:45:43 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Ashley,

The way the new OCD Permitting Incident Page is set up, we can only give a 90 day extension from the day it is requested. That would extend the deadline for a Remediation Closure Report until 4/30/2024. Your request for an extension to **April 30, 2024** is approved. If you feel additional time is needed, you can request an additional extension near the deadline. We will review the request at that time.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, January 31, 2024 11:50 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of February 24, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Currently, a drilling rig is onsite and remediation within the vicinity of the spill area is not possible. In addition to the drilling rig onsite, Matador would like to establish depth to water within a 0.5-mile radius of the Site. Matador will contract a licensed well driller to complete a depth to water boring within the next 90 days. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Matador intends to remediate the spill area when drilling activities at the Site have been completed and submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until May 24, 2024.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#); clinton.talley@matadorresources.com; [Jason Touchet](#)
Cc: [Chad Hamilton](#); [Cole Burton](#); [Israel Estrella](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: (Final Extension) - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Monday, April 22, 2024 3:36:11 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2333038378**

Ashley,

Your request for a 90 day extension to **July 22nd, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
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EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, April 22, 2024 11:34 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; clinton.talley@matadorresources.com; [Jason Touchet](mailto:Jason.Touchet@matadorresources.com) <jason.touchet@matadorresources.com>
Cc: Chad Hamilton <chamilton@ensolum.com>; Cole Burton <cburton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

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

All,

Matador Production Company (Matador) is requesting a 2nd extension for the current deadline of April 30, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Matador was able to secure landowner permission on March 26, 2024, for the purpose of establishing depth to water (DTW) within a 0.5-mile radius of the Site, however Matador is currently waiting on approval from the New Mexico Office of the State Engineer (NMOSE) for the WR-07 permit (Application for Permit to Drill a Well). Once Matador receives the approved drilling permit, the DTW determination will be completed, and remediation/confirmation sampling of the impacted area will begin. Matador intends to submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until June 29, 2024.

Matador will upload this extension request to the NMOCD web portal following this email submission.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f t

"Your authenticity is your superpower." – Unknown

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

QUESTIONS

Action 288123

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288123
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	George Well Pad
Date Release Discovered	11/26/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	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	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other Frac Tank Drilling Mud/Fluid Released: 467 BBL Recovered: 450 BBL Lost: 17 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4" Butterfly Valve open due to no plug-in valve release 450 bbls in containment and 17 bbls on ground.

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QUESTIONS, Page 2

Action 288123

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288123
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Clint Talley
If YES, was immediate notice given to the OCD, to whom	website
If YES, was immediate notice given to the OCD, when	11/26/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	website
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

Per 19.15.29.8 B. (4) 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 288123

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288123
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 288123

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288123
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	11/26/2023

District I
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2333038378
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # <i>(assigned by OCD)</i> nAPP2333038378
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.21286

Longitude -104.05189

(NAD 83 in decimal degrees to 5 decimal places)

Site Name George Well Pad	Site Type
Date Release Discovered 11/26/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	14	24S	28E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 233.5 bbls	Volume Recovered (bbls) 225 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 233.5 bbls of Diesel	Volume/Weight Recovered (provide units) 225 bbls of Diesel


Cause of Release: A 4" butterfly valve was left open, and a 50/50 mixture of Brine and Diesel was released on-pad. 450 bbls were held inside the plastic berm and recovered. 17 bbls of the mixture spilled outside of the plastic liner and impacted an area on-pad. An initial scrape of the on-pad area has been completed.

Incident ID	nAPP2333038378
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 11/26/2023 via website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>11/27/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>11/28/2023</u>

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 288877

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288877
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/28/2023



July 3, 2024

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

**Re: Remediation Work Plan
George Well Pad
Incident Numbers nAPP2333038378
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Remediation Work Plan* (RWP) to document assessment and soil sampling activities performed at the George Well Pad (Site) in Unit E, Section 14, Township 24 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to address impacted and waste-containing soil resulting from a 4-inch butterfly valve. Matador is submitting this RWP, describing analytical results from soil sampling activities associated with Incident Number nAPP2333038378 and proposing additional delineation soil sampling, excavation, and confirmation soil sampling activities at the Site prior to submitting a *Closure Request*.

The New Mexico Oil Conservation Division (NMOCD) approved a 90-day extension on January 31, 2024, in order for Matador to establish depth to water within a half-mile radius of the Site. A second 90-day extension was requested due to ongoing drilling operations at the Site. The second extension was approved on April 22, 2024, and the current deadline for submitting a remediation work plan or closure report is July 22, 2024. John Scarborough Drilling, Inc. completed the depth to water determination on June 10, 2024, and depth to groundwater was determined to be greater than 55 feet below ground surface (bgs).

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.21286°, -104.05189°) and is associated with oil and gas exploration and production operations on Private Land.

On November 26, 2023, a malfunctioning 4-inch butterfly valve resulted in the release of over 46 barrels (bbls) of drilling mud onto the caliche pad; 450 bbls were recovered. Matador reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 28, 2023 (Appendix A). The release was assigned Incident Number nAPP2333038378.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization, see Appendix A. 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-04828 POD 1, located approximately 0.22 miles northeast of the Site. The boring was drilled to investigate depth to water for the Site on June 10, 2021. The well was drilled to a total depth of 55 feet below ground surface (bgs). The boring was allowed to equilibrate for at least 72 hours to allow for potentially slow in-filling groundwater to collect. Following the waiting period, groundwater was not encountered, and it has been determined that groundwater is greater than 55 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well log and record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 686 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified in 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: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On December 5 and December 6, 2023, Ensolum personnel were onsite to begin delineation sampling of the on-pad spill area. Preliminary assessment soil samples (SS01 through SS08) were collected at ground surface to verify the lateral extent of the release area. Four pothole samples, (PH01 through PH04) were advanced via backhoe at depths ranging from ground surface to 4 feet bgs to verify the vertical extent of the release area.

Samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and MOHR method titration. Preliminary assessment soil samples and the four pothole locations are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. A photographic log including delineation and excavation activities can be found in Appendix D.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01, SS02, SS05, and SS08, collected at ground surface were in compliance with the strictest Closure Criteria and with the Site Closure Criteria. Lateral delineation soil samples SS03, SS04, SS06 and SS07 exceeded the strictest Closure Criteria per NMOCD Table I at ground surface; however, all COC concentrations were in compliance with the Site Closure Criteria. Discrete delineation soil samples collected from potholes PH01 and PH02 exceed the strictest Closure Criteria at 1-foot bgs and 4 feet bgs respectively and discrete delineation samples from PH01 exceeded the Site Closure Criteria for TPH at ground surface. Discrete delineation soil samples collected from potholes PH03 and PH04 were in compliance with the strictest Closure Criteria at ground surface and 1-foot bgs; discrete delineation soil samples collected from all four potholes (PH01 through PH04) were all in compliance with the Site Closure Criteria. Laboratory analytical results for delineation soil samples are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

PROPOSED REMEDIATION WORK PLAN

The results of the delineation soil sampling suggest soil containing elevated concentrations of chloride exist in the release area, which measures approximately 8,698 square feet in size. The on-pad release area will require a surface scrape via mechanical equipment once the drilling rig onsite has been rigged down and relocated. Based on laboratory analytical results from delineation soil sampling activities, Ensolum personnel will need to return to the Site in order to recollect lateral delineation soil samples SS03, SS04, SS06, and SS07 and to advance potholes PH01 and PH02 in accordance with the strictest Closure Criteria. Lateral delineation soil samples SS01, SS02, SS05, and SS08 collected at ground surface and discrete delineation soil samples collected from potholes PH03 and PH04 at depths ranging ground surface to 4 feet bgs indicated all COC's were in compliance with the strictest Closure Criteria and with the Site Closure Criteria. Matador proposes excavation of the impacted soil and Ensolum estimates approximately 161 cubic yards of soil will be excavated from the impacted area.

Matador proposes to complete the following remediation activities:

- Complete lateral delineation in the vicinity of sample locations SS03, SS04, SS06, and SS07 and complete vertical delineation in potholes PH01 and PH02 to the strictest Closure Criteria per NMOCD Table I.
- A surface scrape of the impacted area on-pad to a depth of 0.5 feet bgs or until field screening of soil indicates the floor of the excavation will be in compliance with the Site Closure Criteria.
- Confirmation samples will be collected at a variance frequency of one five-point composite soil sample every 400 square feet from the floor of the excavation and at a frequency of every 200 square feet from the sidewalls of the excavation. Based on the areal extent of the on-pad excavation area, the variance request will be equally protective of human health, the environment, and groundwater since depth to ground water is reasonably estimated to be greater than 55 feet bgs, there are no other sensitive receptors in the vicinity of the Site, and impacted and waste-containing soil will be adequately delineated to demonstrate compliance with an expanded frequency of confirmation sampling.
- An estimated 161 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

Matador will complete the proposed soil sampling activities within 180 days of the date of approval of this Work Plan by the NMOCD or as the drilling schedule allows.

George Well Pad



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

Sincerely,
Ensolum, LLC

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

Ashley Giovengo
Senior Scientist

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

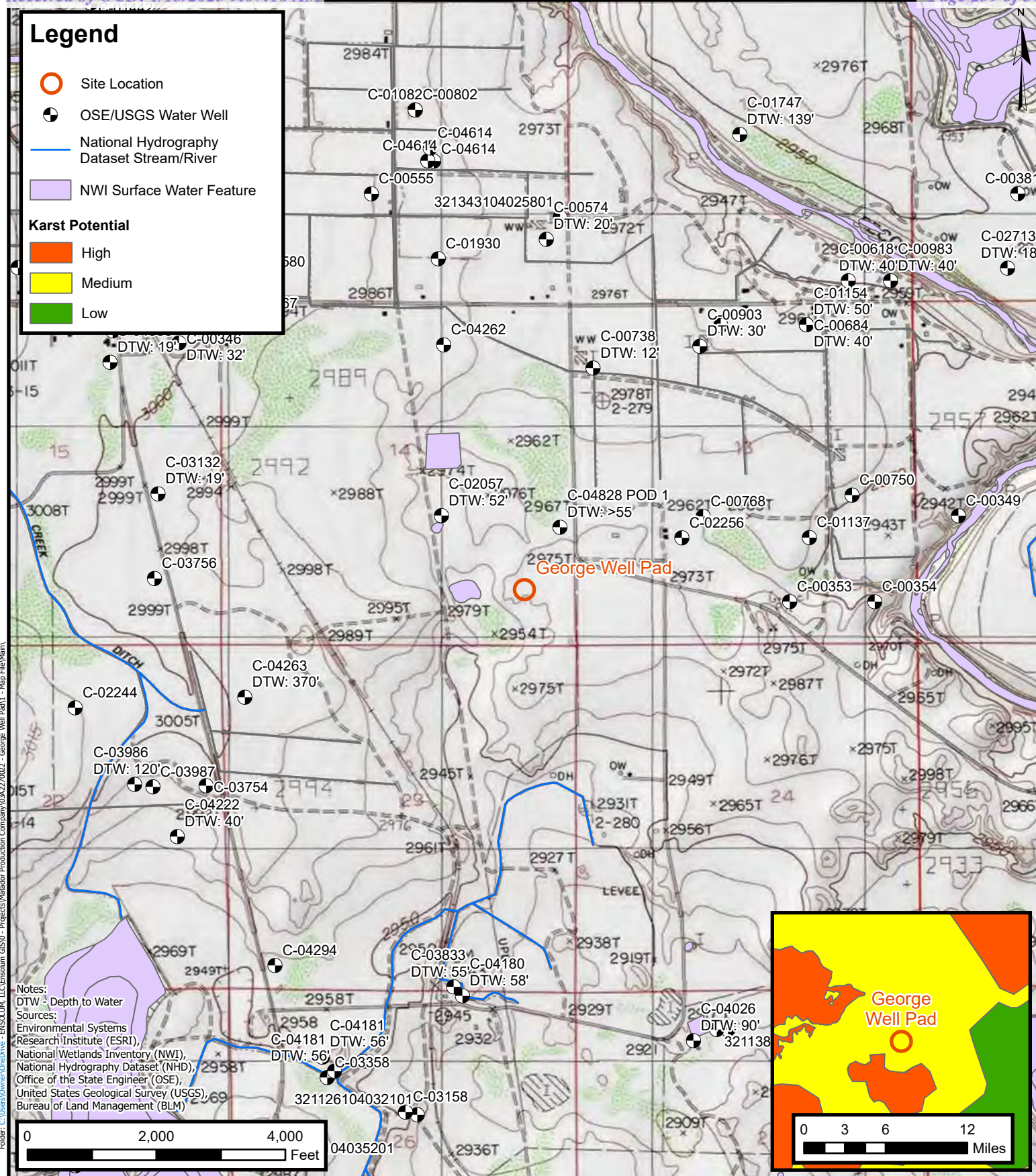
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Appendix A	Form C-141
Appendix B	Well Log and Record
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence



FIGURES



Site Receptor Map

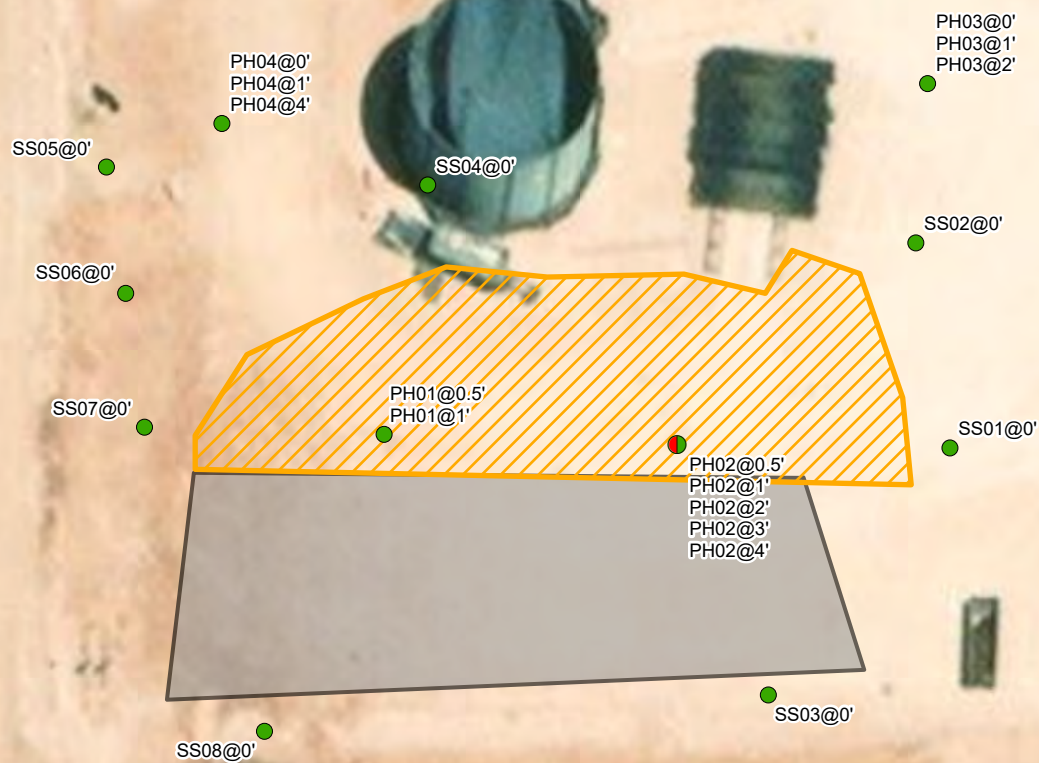
Matador Production Company
George Well Pad
Incident Number: nAPP2333038378
Unit E, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE

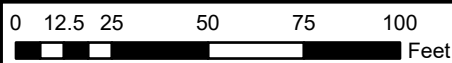
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent
- Liner Containment Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Delineation Soil Sample Locations**

Matador Production Company
George Well Pad
Incident Number: nAPP2333038378
Unit E, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 George Well Pad
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
SS01	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	183
SS02	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	391
SS03	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	610
SS04	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	634
SS05	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	248
SS06	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
SS07	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	834
SS08	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	194
PH01	12/5/2023	0.5	<0.0250	<0.0250	<20.0	60.6	<50.0	<25.0	60.6	403
PH01	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	827
PH02	12/5/2023	0.5	<0.0250	<0.0250	<20.0	1,210	<50.0	1,210	1,210	1,370
PH02	12/5/2023	1	<0.0250	<0.0250	<20.0	555	<50.0	555	555	1,230
PH02	12/5/2023	2	<0.0250	<0.0250	<20.0	168	<50.0	<25.0	168	896
PH02	12/5/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	572
PH02	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	765
PH03	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	381
PH03	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	442
PH03	12/5/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	454
PH04	12/5/2023	0	<0.0250	<0.0250	<20.0	95.7	<50.0	95.7	95.7	668
PH04	12/5/2023	1	<0.0250	<0.0250	<20.0	99.1	76.0	175.1	175.1	386
PH04	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

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

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

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

Incident ID	nAPP2333038378
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # <i>(assigned by OCD)</i> nAPP2333038378
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.21286 Longitude -104.05189
(NAD 83 in decimal degrees to 5 decimal places)

Site Name George Well Pad	Site Type
Date Release Discovered 11/26/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	14	24S	28E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 233.5 bbls	Volume Recovered (bbls) 225 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 233.5 bbls of Diesel	Volume/Weight Recovered (provide units) 225 bbls of Diesel

Cause of Release: A 4" butterfly valve was left open, and a 50/50 mixture of Brine and Diesel was released on-pad. 450 bbls were held inside the plastic berm and recovered. 17 bbls of the mixture spilled outside of the plastic liner and impacted an area on-pad. An initial scrape of the on-pad area has been completed.


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2333038378
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 11/26/2023 via website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>11/27/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>11/28/2023</u>

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

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

CONDITIONS

Action 288877

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288877
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/28/2023



APPENDIX B

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO. N/A		OSE FILE NO(S) C-04828 POD 1			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 12	SECONDS 56.0	N		
		LONGITUDE 104		03	00.3	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit E, Section 14, Township 24S, Range 28E, Eddy County, NM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 06/10/2024		DRILLING ENDED 06/10/2024		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	5.00	Soil Boring	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

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


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	10	20	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	20	30	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
	30	40	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
	40	50	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with trac	Y ✓ N	
	50	55	5	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
	55	55	0	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	Scott Scarborough		Digitally signed by Scott Scarborough Date: 2024.06.26 07:04:55 -06'00'		Scott Scarborough 06/26/2024	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	


FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	





APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM								Sample Name: PH01		Date: 12/5/2023	
								Site Name: George Well Pad			
								Incident Number: nAPP2333038378			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ethan Haft		Method: Back Hoe	
Coordinates: 32.2126926, -104.0520252								Hole Diameter: 12 inches		Total Depth: 11 ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	235	NA	N	PH01	0.5	0.5	SM	Pad caliche, carbonate (limestone) clay and gravel. Light gray and powdery.			
Dry	590	NA	N	PH01	1	1	SP-SM	Brown silt and clay, limestone pebbles and gravel.			
Moist	1,300	NA	N	PH01		2	SW-SC	Dark brown silt and clay, moist, well sorted. Some limestone pebbles.			
Moist	2,300	NA	N	PH01		3	SW-SC	Same as above			
Moist	1,025	NA	N	PH01		4	SW-SC	Same as above			
Moist	1,110	NA	N	PH01		5	SW-SC	Same as above			
Moist	862	NA	N	PH01		6	SW-SM	Dark brown silt and clay, thinly bedded mudstone, well sorted.			
Moist	1,300	NA	N	PH01		7	SW-SM	Same as above			
Moist	1,300	NA	N	PH01		8	SW-SM	Same as above			
Moist	862	NA	N	PH01		9	SP-SC	Dark brown silt and clay with limestone gravel, poor/moderately sorted			
Moist	790	NA	N	PH01		10	SP-SC	Same as above			
Moist	862	NA	N	PH01		11	SP-SC	Same as above			
Total Depth @ 11 ft bgs											

									Sample Name: PH02	Date: 12/5/2023
									Site Name: George Well Pad	
									Incident Number: nAPP2333038378	
									Job Number: 03A2270022	
LITHOLOGIC / SOIL SAMPLING LOG									Logged By: Ethan Haft	Method: Back Hoe
Coordinates: 32.2126824, -104.0520293									Hole Diameter: 12 inches	Total Depth: 9 ft
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)		Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	1,870	NA	N	PH02	0.5		0.5	SM	Pad caliche, carbonate (limestone) clay and gravel. Off white to tan.	
Dry	1,500	NA	N	PH02	1		1	SM	Pad caliche, medium brown silt. Limestone pebbles. Moderate sorting.	
Dry	1,025	NA	N	PH02	2		2	SW-SM	Dark brown silt and clay. Limestone gravel. Moderate sorting.	
Moist	790	NA	Y	PH02	3		3	SW-SM	Dark brown to dark gray silt and clay. Some mudstone. Moderate sorting.	
Moist	620	NA	N	PH02	4		4	SW-SM	Dark brown silt and clay, moderate plasticity. Well sorted, some limestone gravel.	
Moist	756	NA	N	PH02			5	SW-SM	Same as above	
Moist	910	NA	N	PH02			6	SW-SM	Dark brown to reddish silt and clay. Well sorted, some limestone gravel.	
Moist	620	NA	N	PH02			7	SW-SM	Same as above	
Moist	1,575	NA	N	PH02			8	SW-SM	Same as above	
Moist	1,810	NA	N	PH02			9	SW-SM	Same as above	
Total Depth @ 9 ft bgs										

								Sample Name: PH03		Date: 12/5/2023			
								Site Name: George Well Pad					
								Incident Number: nAPP2333038378					
								Job Number: 03A2270022					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ethan Haft		Method: Back Hoe			
Coordinates: 32.2129411, -104.0515639								Hole Diameter: 12 inches		Total Depth: 9 ft			
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Dry	350	NA	N	PH03	0	0	SM	Pad caliche, powdery carbonate clay and pebbles. Light off white, moderate sorting.					
Moist	500	NA	N	PH03	1	1	SC	Dark brown clay, high plasticity. well sorted.					
Moist	440	NA	N	PH03	2	2	SW-SM	Dark brown silt and clay, low plasticity. Thinly bedded mudstone, well sorted.					
Moist	830	NA	N	PH03		3	SW-SM	Same as above					
Moist	1,260	NA	N	PH03		4	SW-SM	Same as above					
Moist	1,260	NA	N	PH03		5	SW-SM	Dark brown silt and clay, limestone gravel. Thinly bedded mudstone, moderate sorting.					
Moist	1,260	NA	N	PH03		6	SW-SM	Same as above					
Moist	990	NA	N	PH03		7	SW-SM	Same as above					
Moist	1,575	NA	N	PH03		8	SW-SM	Same as above					
Total Depth @ 8 ft bgs													

 ENSOLUM								Sample Name: PH04		Date: 12/5/2023	
								Site Name: George Well Pad			
								Incident Number: nAPP2333038378			
								Job Number: 03A2270022			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ethan Haft		Method: Back Hoe	
Coordinates: 32.212916, -104.052158								Hole Diameter: 12 inches		Total Depth: 8ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	610	NA	N	PH04	0	0	SM	Pad caliche, carbonate clay and gravel. Off white and powdery, moderate sorting.			
Dry	493	NA	N	PH04	1	1	SP-SM	Pad caliche, light to dark brown silt and clay. Limestone gravel, moderate sorting.			
Moist	ND	NA	N	PH04		2	SW-SC	Dark brown to reddish clay, high plasticity. Well sorted.			
Moist	ND	NA	N	PH04		3	SW-SC	Dark brown to reddish clay, high plasticity. Limestone gravel, well sorted.			
Moist	ND	NA	N	PH04	4	4	SW-SC	Dark brown silt and clay, thinly bedded mudstone. Well sorted.			
Moist	745	NA	N	PH04		5	SM	Dark brown silt, well sorted.			
Moist	1,154	NA	N	PH04		6	SM	Same as above			
Moist	900	NA	N	PH04		7	SM	Same as above			
Moist	820	NA	N	PH04		8	SC	Dark brown clay, well sorted, high plasticity. Limestone gravel.			
Total Depth @ 8 ft bgs											



APPENDIX D

Photographic Log



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 1

Date: 12/05/2023

Description: PH01; Vertical Delineation Sampling

View: North

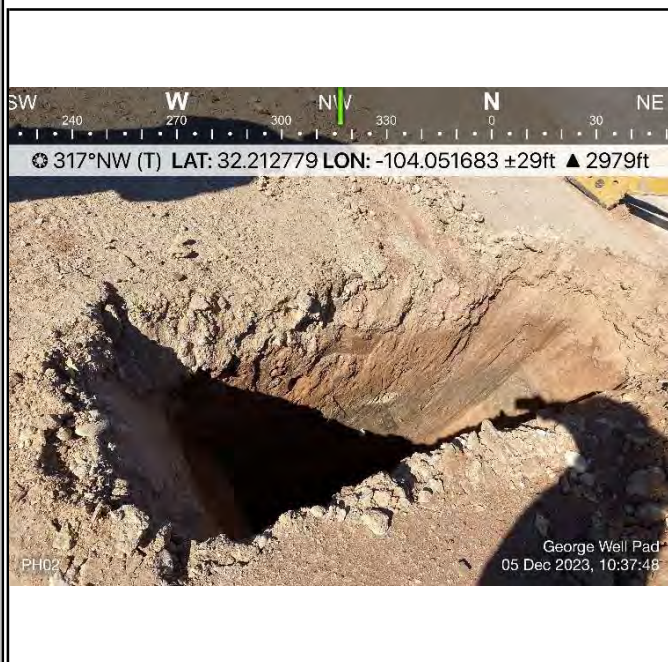


Photograph 2

Date: 12/05/2023

Description: Release Area

View: East



Photograph 3

Date: 12/05/2023

Description: PH02; Vertical Delineation Sampling

View: Northwest



Photograph 4

Date: 12/05/2023

Description: PH03; Vertical Delineation Sampling

View: Northwest



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 5

Date: 12/05/2023

Description: Vertical Delineation Sampling

View: North

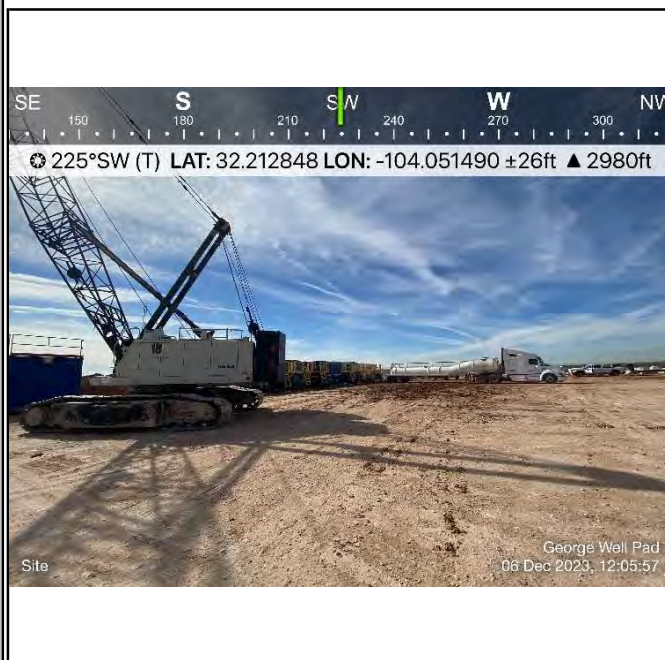


Photograph 6

Date: 12/05/2023

Description: Vertical Delineation Sampling

View: North

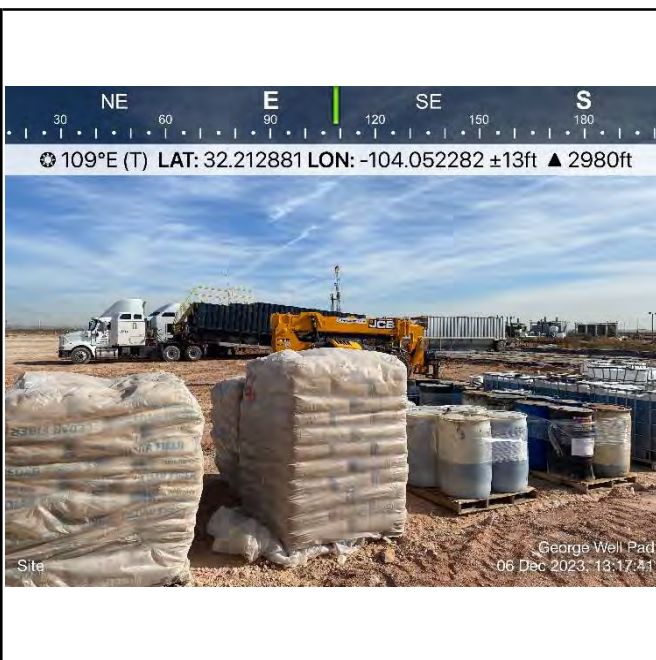


Photograph 7

Date: 12/06/2023

Description: Equipment on location

View: Southwest



Photograph 8

Date: 12/06/2023

Description: Equipment on location

View: East



Photographic Log

Matador Production Company

George Well Pad

nAPP2333038378



Photograph 9 Date: 06/10/2024
Description: Depth to Water Determination
View: East



Photograph 10 Date: 06/10/2024
Description: Depth to Water Determination
View: Southeast



Photograph 11 Date: 06/10/2024
Description: Depth to Water Determination
View: West



Photograph 12 Date: 06/10/2024
Description: Depth to Water Determination
View: Northwest



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312049

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312049
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
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whinchman@envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 11:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03-0'	E312049-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-1'	E312049-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-2'	E312049-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
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PH03-0'

E312049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane	81.3 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	381	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 11:23:46AM

PH03-1'

E312049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	81.8 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	442	100	5	12/11/23	12/13/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 11:23:46AM

PH03-2'

E312049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	80.5 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350010	
Chloride	454	200	10	12/11/23	12/13/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349098-BLK1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.4	70-130			

LCS (2349098-BS1)

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

Matrix Spike (2349098-MS1)

Source: E312044-27

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.69	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			

Matrix Spike Dup (2349098-MSD1)

Source: E312044-27

Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.36	0.0250	5.00	ND	87.1	54-133	7.30	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133	6.38	20	
Toluene	4.68	0.0250	5.00	ND	93.6	61-130	6.74	20	
o-Xylene	4.77	0.0250	5.00	ND	95.3	63-131	6.63	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	6.23	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	6.36	20	
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349098-BLK1) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

LCS (2349098-BS2) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2349098-MS2) Source: E312044-27 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0	ND	83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2349098-MSD2) Source: E312044-27 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130	1.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

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 (2350045-BLK1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

LCS (2350045-BS1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			

Matrix Spike (2350045-MS1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			

Matrix Spike Dup (2350045-MSD1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.4	38-132	3.49	20	
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 11:23:46AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350010-BLK1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	ND	20.0							
LCS (2350010-BS1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2350010-MS1)					Source: E312047-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2350010-MSD1)					Source: E312047-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	252	20.0	250	ND	101	80-120	0.999	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 11:23

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: George Well Pad		Attention: Matador Production Company						Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		Address: on file						E312049		23052-0001					X					
Address: 3122 National Parks Hwy		City, State, Zip:						Analysis and Method									RCRA			
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398							/DRO/DRO by	8021	260	010	300.0	NM	TX	State				
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com														NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com																				
Report due by:																				

[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafit@ensolum.com - samples kept on ice

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.						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) <i>Ethan Haft</i>	Date 12/7/23	Time 0700	Received by: (Signature) <i>Michelle Geyl</i>	Date 12-7-23	Time 1130	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N		
Relinquished by: (Signature) <i>Michelle Geyl</i>	Date 12-7-23	Time 1730	Received by: (Signature) <i>Andrew Hays</i>	Date 12-8-23	Time 0700	T1	T2	T3
Relinquished by: (Signature) <i>Andrew Hays</i>	Date 12-8-23	Time 1300	Received by: (Signature) <i>Andrew Hays</i>	Date 12-8-23	Time 1300	AVG Temp °C <u>4</u>		

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

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

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



Envirotech Analytical Laboratory

Printed: 12/11/2023 12:28:28PM

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:	12/08/23 13:00	Work Order ID:	E312049
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:31	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/18/23 17:00 (6 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312050

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312050
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
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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: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 13:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04-0'	E312050-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-1'	E312050-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-4'	E312050-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 1:51:44PM
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PH04-0'

E312050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		12/08/23	12/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350043	
Diesel Range Organics (C10-C28)	95.7	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
Surrogate: n-Nonane	94.2 %	50-200		12/12/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	668	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 1:51:44PM

PH04-1'

E312050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.4 %</i>	<i>70-130</i>		<i>12/08/23</i>	<i>12/12/23</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>89.0 %</i>	<i>70-130</i>		<i>12/08/23</i>	<i>12/12/23</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350043	
Diesel Range Organics (C10-C28)	99.1	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	76.0	50.0	1	12/12/23	12/14/23	
<i>Surrogate: n-Nonane</i>	<i>97.0 %</i>	<i>50-200</i>		<i>12/12/23</i>	<i>12/14/23</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	386	200	10	12/11/23	12/12/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 1:51:44PM

PH04-4'

E312050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Benzene	ND	0.0250	1	12/08/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/13/23	
Toluene	ND	0.0250	1	12/08/23	12/13/23	
o-Xylene	ND	0.0250	1	12/08/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	12/08/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	12/08/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350043	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	12/12/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	ND	200	10	12/11/23	12/12/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported: 12/15/2023 1:51:44PM
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349099-BLK1) Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

LCS (2349099-BS1) Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.97	0.0250	5.00		99.3	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

Matrix Spike (2349099-MS1) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			

Matrix Spike Dup (2349099-MSD1) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Benzene	5.57	0.0250	5.00	ND	111	54-133	8.23	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	8.78	20	
Toluene	5.55	0.0250	5.00	ND	111	61-130	8.42	20	
o-Xylene	5.53	0.0250	5.00	ND	111	63-131	8.08	20	
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	8.63	20	
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	8.44	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349099-BLK1) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			

LCS (2349099-BS2) Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike (2349099-MS2) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2349099-MSD2) Source: E312047-07 Prepared: 12/08/23 Analyzed: 12/12/23

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130	11.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

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 (2350043-BLK1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			

LCS (2350043-BS1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike (2350043-MS1)					Source: E312063-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike Dup (2350043-MSD1)					Source: E312063-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	6.93	20	
Surrogate: n-Nonane	51.8		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 1:51:44PM
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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 (2350011-BLK1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	ND	20.0							
LCS (2350011-BS1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2350011-MS1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	353	200	250	ND	141	80-120			M5
Matrix Spike Dup (2350011-MSD1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	359	200	250	ND	144	80-120	1.64	20	M5

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 13:51

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Client: Matador Production Company				Bill To		Lab Use Only				TAT				EPA Program			
Project: George Well Pad				Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo				Address: on file		E312050		23052-0001					X				
Address: 3122 National Parks Hwy				City, State, Zip:		Analysis and Method										RCRA	
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com													x				
Report due by:						Remarks											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
14:42	12/5/2023	Soil	1	PH04 - 0'	1								X				
14:45	12/5/2023	Soil	1	PH04 - 1'	2								X				
14:49	12/5/2023	Soil	1	PH04 - 4'	3								X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com - samples 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									
Ethan Haft		12/7/23	0700	Michelle Kuyf		12-7-23	1130	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									
Michelle Kuyf		12-7-23	1730	Andrew M. 4980		12-8-23	0700										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
Andrew M. 4980		12-8-23	1300	Andrew M. 4980		12-8-23	1300	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: 12/11/2023 12:33:32 PM

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:	12/08/23 13:00	Work Order ID:	E312050
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:38	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312053

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312053
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 16:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0.5'	E312053-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH01-1'	E312053-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 4:29:34PM

PH01-0.5'

E312053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	60.6	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350035
Chloride	403	20.0	1	12/12/23	12/15/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 4:29:34PM

PH01-1'

E312053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.1 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		12/11/23	12/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350045	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
<i>Surrogate: n-Nonane</i>	84.8 %	50-200		12/13/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350035	
Chloride	827	200	10	12/12/23	12/15/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2350004-BS1) Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike (2350004-MS1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike Dup (2350004-MSD1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

LCS (2350004-BS2) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

Matrix Spike (2350004-MS2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			

Matrix Spike Dup (2350004-MSD2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		88.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

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 (2350045-BLK1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

LCS (2350045-BS1)					Prepared: 12/13/23 Analyzed: 12/14/23				
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			

Matrix Spike (2350045-MS1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			

Matrix Spike Dup (2350045-MSD1)					Source: E312048-03		Prepared: 12/13/23 Analyzed: 12/14/23		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.4	38-132	3.49	20	
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 4:29:34PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350035-BLK1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Chloride	ND	20.0							
LCS (2350035-BS1)					Prepared: 12/12/23 Analyzed: 12/14/23				
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2350035-MS1)					Source: E312048-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Chloride	730	20.0	250	458	109	80-120			
Matrix Spike Dup (2350035-MSD1)					Source: E312048-02		Prepared: 12/12/23 Analyzed: 12/14/23		
Chloride	732	20.0	250	458	110	80-120	0.360	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 16:29

- 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.



[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:49:24 PM

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:	12/08/23 13:00	Work Order ID:	E312053
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:03	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312055

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/15/23

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



Project Name: George Well Pad
Workorder: E312055
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/23 15:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E312055-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS02-0'	E312055-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS03-0'	E312055-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS04-0'	E312055-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS05-0'	E312055-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS06-0'	E312055-06A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS07-0'	E312055-07A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS08-0'	E312055-08A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS01-0'

E312055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	183	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS02-0'

E312055-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.2 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	95.2 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	391	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS03-0'

E312055-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.2 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	94.1 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	610	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS04-0'

E312055-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350018
Chloride	634	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS05-0'

E312055-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.4 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.8 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	248	20.0	1	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS06-0'

E312055-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.7 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	97.2 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	3870	200	10	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS07-0'

E312055-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.5 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.1 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	93.8 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	834	40.0	2	12/13/23	12/14/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/15/2023 3:14:49PM

SS08-0'

E312055-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.7 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		12/11/23	12/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350031	
Diesel Range Organics (C10-C28)	75.3	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	88.3	50.0	1	12/12/23	12/13/23	
<i>Surrogate: n-Nonane</i>	94.1 %	50-200		12/12/23	12/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350018	
Chloride	194	20.0	1	12/13/23	12/14/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2350004-BS1) Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike (2350004-MS1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike Dup (2350004-MSD1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

LCS (2350004-BS2) Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

Matrix Spike (2350004-MS2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			

Matrix Spike Dup (2350004-MSD2) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		88.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

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 (2350031-BLK1)					Prepared: 12/12/23 Analyzed: 12/13/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			

LCS (2350031-BS1)					Prepared: 12/12/23 Analyzed: 12/13/23				
Diesel Range Organics (C10-C28)	222	25.0	250		89.0	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike (2350031-MS1)					Source: E312055-05		Prepared: 12/12/23 Analyzed: 12/13/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132			
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

Matrix Spike Dup (2350031-MSD1)					Source: E312055-05		Prepared: 12/12/23 Analyzed: 12/13/23		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132	0.0299	20	
Surrogate: n-Nonane	51.5		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/15/2023 3:14:49PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350018-BLK1)					Prepared: 12/11/23 Analyzed: 12/14/23				
Chloride	ND	20.0							
LCS (2350018-BS1)					Prepared: 12/11/23 Analyzed: 12/14/23				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2350018-MS1)					Source: E312055-04		Prepared: 12/11/23 Analyzed: 12/14/23		
Chloride	823	20.0	250	634	75.3	80-120			M2
Matrix Spike Dup (2350018-MSD1)					Source: E312055-04		Prepared: 12/11/23 Analyzed: 12/14/23		
Chloride	821	20.0	250	634	74.5	80-120	0.240	20	M2

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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 15:14

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company		Bill To		Lab Use Only		TAT				EPA Program	
Project: George Well Pad		Attention: Matador Production Company		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E312055		Job Number		23052-0001		X	
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method						RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398									
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									
Email: agiovengo@ensolum.com											
Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC	NM	GDOC	TX	Remarks
11:33	12/5/2023	Soil	1	SS01 - 0'	1						X				
11:35	12/5/2023	Soil	1	SS02 - 0'	2						X				
12:55	12/6/2023	Soil	1	SS03 - 0'	3						X				
12:18	12/6/2023	Soil	1	SS04 - 0'	4						X				
13:20	12/6/2023	Soil	1	SS05 - 0'	5						X				
12:28	12/6/2023	Soil	1	SS06 - 0'	6						X				
11:44	12/5/2023	Soil	1	SS07 - 0'	7						X				
11:45	12/5/2023	Soil	1	SS08 - 0'	8						X				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples 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					
<i>Ethan Haft</i>	12/7/23	0700	<i>Michaela Gough</i>	12-7-23	1130	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>Michaela Gough</i>	12-7-23	1730	<i>Andrew Russo</i>	12-8-23	0700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>Andrew Russo</i>	12-8-23	1300	<i>Alvin</i>	12-8-23	1300	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: 12/11/2023 1:00:53 PM

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:	12/08/23 13:00	Work Order ID:	E312055
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:20	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: George Well Pad

Work Order: E312056

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/18/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/18/23

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



Project Name: George Well Pad
Workorder: E312056
Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: George Well Pad.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
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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: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/23 09:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-0.5'	E312056-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-1'	E312056-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-2'	E312056-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-3'	E312056-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-4'	E312056-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42AM

PH02-0.5'

E312056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.1 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	1210	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
		80.2 %	50-200	12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	1370	40.0	2	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42 AM

PH02-1'

E312056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.2 %	70-130	12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2350071	
Diesel Range Organics (C10-C28)	555	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>		75.8 %	50-200	12/14/23	12/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2350015	
Chloride	1230	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42 AM

PH02-2'

E312056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	168	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	896	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42 AM

PH02-3'

E312056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	94.9 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	572	200	10	12/11/23	12/11/23	



Sample Data

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

Project Name: George Well Pad
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/18/2023 9:40:42 AM

PH02-4'

E312056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2350071
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		12/14/23	12/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2350015
Chloride	765	200	10	12/11/23	12/11/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350012-BLK1)

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

LCS (2350012-BS1)

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike (2350012-MS1)

Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.64	0.0250	5.00	ND	92.9	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2350012-MSD1)

Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.87	0.0250	5.00	ND	97.4	54-133	4.77	20	
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133	5.02	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.79	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	4.86	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	4.92	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131	4.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350012-BLK1) Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

LCS (2350012-BS2) Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2350012-MS2) Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			

Matrix Spike Dup (2350012-MSD2) Source: E312059-01 Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.3	70-130	0.450	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

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 (2350071-BLK1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS (2350071-BS1)					Prepared: 12/14/23 Analyzed: 12/15/23				
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike (2350071-MS1)					Source: E312056-04		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike Dup (2350071-MSD1)					Source: E312056-04		Prepared: 12/14/23 Analyzed: 12/15/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	0.292	20	
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: George Well Pad Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/18/2023 9:40:42AM
---	---	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2350015-BLK1)					Prepared: 12/11/23 Analyzed: 12/11/23				
Chloride	ND	20.0							
LCS (2350015-BS1)					Prepared: 12/11/23 Analyzed: 12/11/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2350015-MS1)					Source: E312060-02		Prepared: 12/11/23 Analyzed: 12/11/23		
Chloride	276	200	250	ND	110	80-120			
Matrix Spike Dup (2350015-MSD1)					Source: E312060-02		Prepared: 12/11/23 Analyzed: 12/11/23		
Chloride	271	200	250	ND	108	80-120	1.79	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/23 09:40

- 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: George Well Pad					Attention: Matador Production Company		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E312050		23062-0001						X				
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method												RCRA
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com														x					
Report due by:																	Remarks		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
12:00	12/5/2023	Soil	1	PH02 - 0.5'	1									X					
12:03	12/5/2023	Soil	1	PH02 - 1'	2									X					
12:04	12/5/2023	Soil	1	PH02 - 2'	3									X					
12:05	12/5/2023	Soil	1	PH02 - 3'	4									X					
12:25	12/5/2023	Soil	1	PH02 - 4'	5									X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples 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]		12/7/23	0700	[Signature]		12-7-23	1130	Received on ice: (Y) N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		12-7-23	1730	[Signature]		12-8-23	0700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		12-8-23	1300	[Signature]		12-8-23	1300	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: 12/11/2023 1:04:15PM

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:	12/08/23 13:00	Work Order ID:	E312056
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:24	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 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 F

NMOCD Notifications

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#); clinton.talley@matadorresources.com; [Jason Touchet](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Israel Estrella](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Wednesday, January 31, 2024 3:45:43 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Ashley,

The way the new OCD Permitting Incident Page is set up, we can only give a 90 day extension from the day it is requested. That would extend the deadline for a Remediation Closure Report until 4/30/2024. Your request for an extension to **April 30, 2024** is approved. If you feel additional time is needed, you can request an additional extension near the deadline. We will review the request at that time.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, January 31, 2024 11:50 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of February 24, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Currently, a drilling rig is onsite and remediation within the vicinity of the spill area is not possible. In addition to the drilling rig onsite, Matador would like to establish depth to water within a 0.5-mile radius of the Site. Matador will contract a licensed well driller to complete a depth to water boring within the next 90 days. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Matador intends to remediate the spill area when drilling activities at the Site have been completed and submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until May 24, 2024.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#); clinton.talley@matadorresources.com; [Jason Touchet](#)
Cc: [Chad Hamilton](#); [Cole Burton](#); [Israel Estrella](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: (Final Extension) - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Monday, April 22, 2024 3:36:11 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2333038378**

Ashley,

Your request for a 90 day extension to **July 22nd, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, April 22, 2024 11:34 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; clinton.talley@matadorresources.com; [Jason Touchet](mailto:Jason.Touchet@matadorresources.com) <jason.touchet@matadorresources.com>
Cc: Chad Hamilton <chamilton@ensolum.com>; Cole Burton <cburton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

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

All,

Matador Production Company (Matador) is requesting a 2nd extension for the current deadline of April 30, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Matador was able to secure landowner permission on March 26, 2024, for the purpose of establishing depth to water (DTW) within a 0.5-mile radius of the Site, however Matador is currently waiting on approval from the New Mexico Office of the State Engineer (NMOSE) for the WR-07 permit (Application for Permit to Drill a Well). Once Matador receives the approved drilling permit, the DTW determination will be completed, and remediation/confirmation sampling of the impacted area will begin. Matador intends to submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until June 29, 2024.

Matador will upload this extension request to the NMOCD web portal following this email submission.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f 

"Your authenticity is your superpower." – Unknown

District I
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District II
811 S. First St., Artesia, NM 88210
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District III
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 362060

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other Frac Tank Drilling Mud/Fluid Released: 467 BBL Recovered: 450 BBL Lost: 17 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4" Butterfly Valve open due to no plug-in valve release 450 bbls in containment and 17 bbls on ground.

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QUESTIONS, Page 2

Action 362060

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	362060
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/09/2024
--	--

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QUESTIONS, Page 3

Action 362060

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	362060
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
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	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
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	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	12/06/2023
On what date will (or was) the remediation complete(d)	08/26/2024
What is the estimated surface area (in square feet) that will be remediated	161
What is the estimated volume (in cubic yards) that will be remediated	8698
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 362060

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	362060
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/09/2024
--	--

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

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1220 S. St Francis Dr.
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QUESTIONS, Page 6

Action 362060

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	{Unavailable.}
Was all the impacted materials removed from the liner	Unavailable.

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

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Santa Fe, NM 87505

CONDITIONS

Action 362060

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation proposal approved with conditions. Confirmation samples for both the base and sidewalls of the surface scrape should be collected every 200 square feet. OCD noticed that the answers, to two different questions you answered in your submittal under Remediation Plan, have been switched; specifically "What is the estimated surface area (in square feet) that will be remediated" and "What is the estimated volume (in cubic yards) that will be remediated." Please correct this with your next submission to Permitting regarding this incident. Matador has already been granted two extensions prior to the submittal of this remediation plan, therefore submit a remediation closure report to the OCD by 10/23/24.	7/25/2024

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QUESTIONS

Action 377446

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377446
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

District I
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Santa Fe, NM 87505

CONDITIONS

Action 377446

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377446
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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QUESTIONS

Action 377452

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377452
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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Santa Fe, NM 87505

CONDITIONS

Action 377452

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377452
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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QUESTIONS

Action 377454

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377454
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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CONDITIONS

Action 377454

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 377454
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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Santa Fe, NM 87505

QUESTIONS

Action 386961

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386961
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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CONDITIONS

Action 386961

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386961
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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Santa Fe, NM 87505

QUESTIONS

Action 386963

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386963
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/01/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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CONDITIONS

Action 386963

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386963
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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Santa Fe, NM 87505

QUESTIONS

Action 386964

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386964
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	(32.21286, -104.05189)

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CONDITIONS

Action 386964

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386964
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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QUESTIONS

Action 386966

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386966
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/03/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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CONDITIONS

Action 386966

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386966
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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Santa Fe, NM 87505

QUESTIONS

Action 386967

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386967
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/04/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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Santa Fe, NM 87505

CONDITIONS

Action 386967

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386967
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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Santa Fe, NM 87505

QUESTIONS

Action 386969

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386969
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	27
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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CONDITIONS

Action 386969

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386969
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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QUESTIONS

Action 391301

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 391301
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,698
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	400 sq. foot sampling variance approved
Please provide any information necessary for navigation to sampling site	32.21286, -104.05189

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CONDITIONS

Action 391301

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 391301
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/9/2024

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QUESTIONS

Action 419794

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333038378
Incident Name	NAPP2333038378 GEORGE WELL PAD @ 30-015-53893
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-53893] GEORGE 14 15 24S 28E #133H

Location of Release Source

Please answer all the questions in this group.

Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
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	Not answered.
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	Cause: Other Frac Tank Drilling Mud/Fluid Released: 467 BBL Recovered: 450 BBL Lost: 17 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4" Butterfly Valve open due to no plug-in valve release 450 bbls in containment and 17 bbls on ground.

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QUESTIONS, Page 2

Action 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 01/13/2025
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QUESTIONS, Page 3

Action 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	3870
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1210
GRO+DRO (EPA SW-846 Method 8015M)	1210
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	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/14/2024
On what date will (or was) the remediation complete(d)	10/14/2024
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	8698
What is the estimated volume (in cubic yards) that will be remediated	161

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 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	No
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 01/13/2025
<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 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	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 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	391301
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	8698

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	8698
What was the total volume (cubic yards) remediated	161
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 01/13/2025
--	--

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QUESTIONS, Page 7

Action 419794

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	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 419794

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419794
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved. Ensure conditions of approval are adhered to going forward.	1/17/2025