# E N S O L U M

November 17, 2023

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

Re: Closure Request Barry Miller State Com #201H Incident Numbers NAPP2319455228 & NAPP2319663541 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 performed at the Barry Miller State Com #201H (Site) in Unit D, Section 16, Township 22 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil from two produced water releases at the Site. Based on the excavation activities and analytical results from the soil sampling events, Matador is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers NAPP2319455228 and NAPP2319663541.

### BACKGROUND

The Site is located in Eddy County, New Mexico (32.393514° N, 104.100114° W) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On July 12, 2023, a 12-inch coupling on a water transfer pipeline header failed and resulted in the release of 110 barrels (bbls) of produced water into an off-pad pasture area, which were not able to be recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 13, 2023. The release was assigned Incident Number NAPP2319455228.

On July 14, 2023, a pump was activated while a valve on the lay-flat line was still shut, which caused a line failure. This failure resulted in the release of 20.85 bbls of produced water into the adjacent off-pad pasture area, roughly 30 feet east of the initial release. A vacuum truck was immediately dispatched to the Site for the second spill to recover free-standing fluids; approximately 8 bbls of produced water were recovered. Matador reported the release to the NMOCD on a Form C-141 on July 27, 2023. The release was assigned Incident Number NAPP2319663541.

### 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).

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Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization for both releases. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be 46 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04702 POD2, located approximately 1.43 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 46 feet bgs and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 1,130 feet southwest 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): 100 mg/kg
- Chloride: 600 mg/kg

### SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On July 21, 2023, Site assessment activities were conducted to evaluate the initial release extent based on information provided on the Form C-141 and visual observations. Six preliminary assessment soil samples (SS01 through SS06) were collected around the initial release extent at ground surface, to assess the lateral extent of the release. Two boreholes (BH01 and BH02) were collected via hand auger to depths of 4 feet and 3 feet bgs, respectively, to determine the vertical extent of the release. Delineation soil samples were field screened for chloride using either Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips or the MOHR method titration.

On August 3 and August 30, 2023, Site assessment activities were conducted to evaluate the secondary release extent based on information provided on the Form C-141 and visual observations. One preliminary assessment soil sample (SS07) was collected around the secondary release extent at ground surface, to assess the lateral extent of the release. One borehole (BH03) was collected via hand auger to a depth of 1-foot bgs to determine the vertical extent of the release. Delineation soil samples were field screened for chloride and results were logged on a lithologic soil sampling log, which is included in Appendix C. The release extents and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

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diesel range organics (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 the delineation soil samples collected from delineation soil samples SS01 through SS06 and SS07A and potholes BH01, BH02 and BH03 (Figure 2), collected at 1-foot bgs, indicated all COC concentrations were in compliance with Site Closure Criteria. Sample BH03, collected at 0 feet bgs, and SS07, collected at 0 feet bgs, were not in compliance with the Closure Criteria. As a result, impacted soil was identified and appeared necessary to remediate through removal during excavation activities. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix F.

### **EXCAVATION SOIL SAMPLING ACTIVITIES**

Prior to beginning excavation activities at the Site, an archaeological survey was completed by Beaver Creek Archeology. The survey determined that the release areas were negative for cultural properties, and as such, the Cultural Properties Protection Rule (CPP) has been followed (see Appendix D).

Between October 26 and October 31, 2023, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred in the pasture area, west of an equipment pad. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PetroFLAG<sup>®</sup> soil analyzer system and MOHR method titration, respectively. The excavation was completed to depths ranging from 1-foot to 2.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix E.

Following removal of impacted soil, 5-point composite soil samples were collected at least one sample every 200 square feet from the sidewalls and 400 square feet from the floor of the excavation, per an approved sampling variance by the NMOCD. 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 SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. Composite soil sample SW08 was collected from the sidewall of the electric pole buffer zone at a depth of 0.5 feet bgs. Composite soil samples FS01 through FS43 were collected from the floor of the excavation at depths ranging from 1-foot to 2.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented in Figure 3.

The excavation area measured approximately 17,200 square feet. A total of approximately 640 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.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 through SW08, collected between 0.5 feet and 2.5 feet bgs, and excavation floor samples FS01 through FS43 (Figure 3), collected at depths ranging from 1-foot to 2.5 feet bgs, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 2 and laboratory analytical reports are included as Appendix F.

### **RECLAMATION PLAN**

The releases occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: Reeves-Gypsum land complex, 0 to 3 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on November 16, 2023;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: BLM seed mix #3;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixutre will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distrbution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
  - The placement of waddles in areas with a propensity for high run off rates;
  - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
  - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address July 2023 releases of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria per

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NMOCD Table I. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

Following remediation efforts, 43 composite confirmation soil samples (FS01 through FS43) and eight composite confirmation sidewall samples (SW01 though SW08) were collected. All samples were in compliance with Site Closure Criteria.

Based on horizontal and vertical delineation sampling, depth to groundwater less than 50 feet bgs, and confirmation soil sample laboratory analytical results in compliance with their respective Closure Criteria, Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Numbers NAPP2319455228 & NAPP2319663541.

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

Sincerely, **Ensolum, LLC** 

Ashley Giovengo Senior Engineer

Daniel R Moir, P.G. Senior Managing Geologist

cc: Clinton Talley, Matador Resources NMSLO

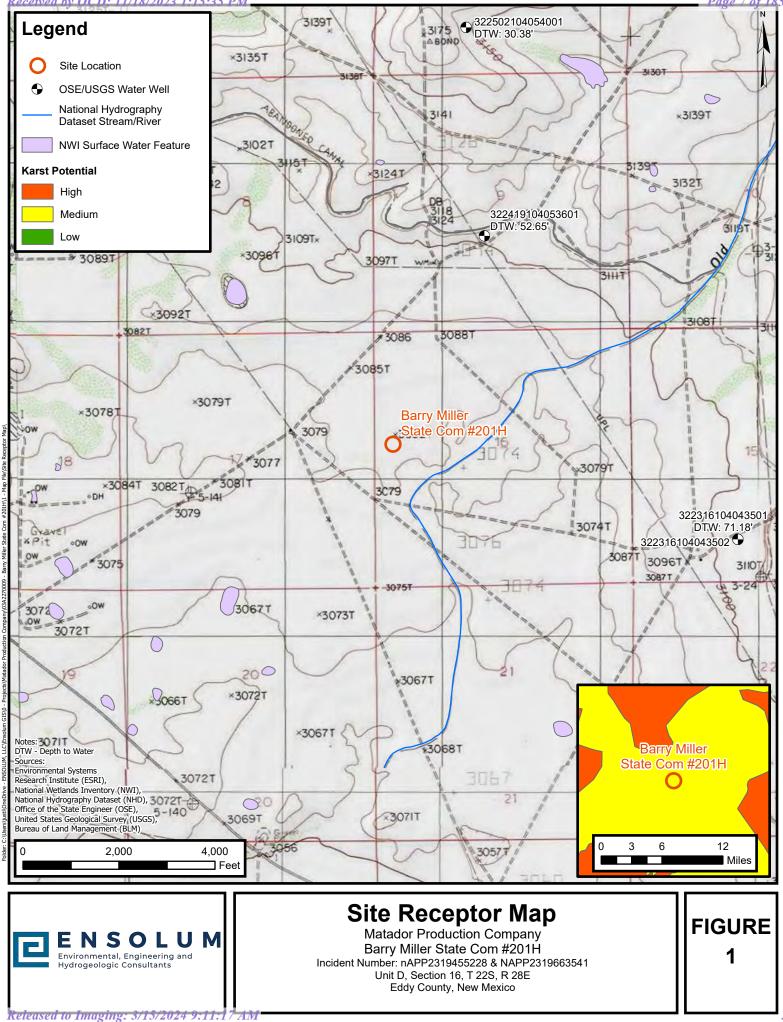
Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1
   Soil Sample Analytical Results (Delineation)
- Table 2
   Soil Sample Analytical Results (Excavation Floor)
- Table 3
   Soil Sample Analytical Results (Excavation Sidewall)
- Appendix A Forms C-141
- Appendix B Referenced Wells
- Appendix C Lithologic Soil Sampling Logs
- Appendix D NMSLO Cultural Resources Cover Sheet
- Appendix E Photographic Log
- Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G Regulatory Correspondence

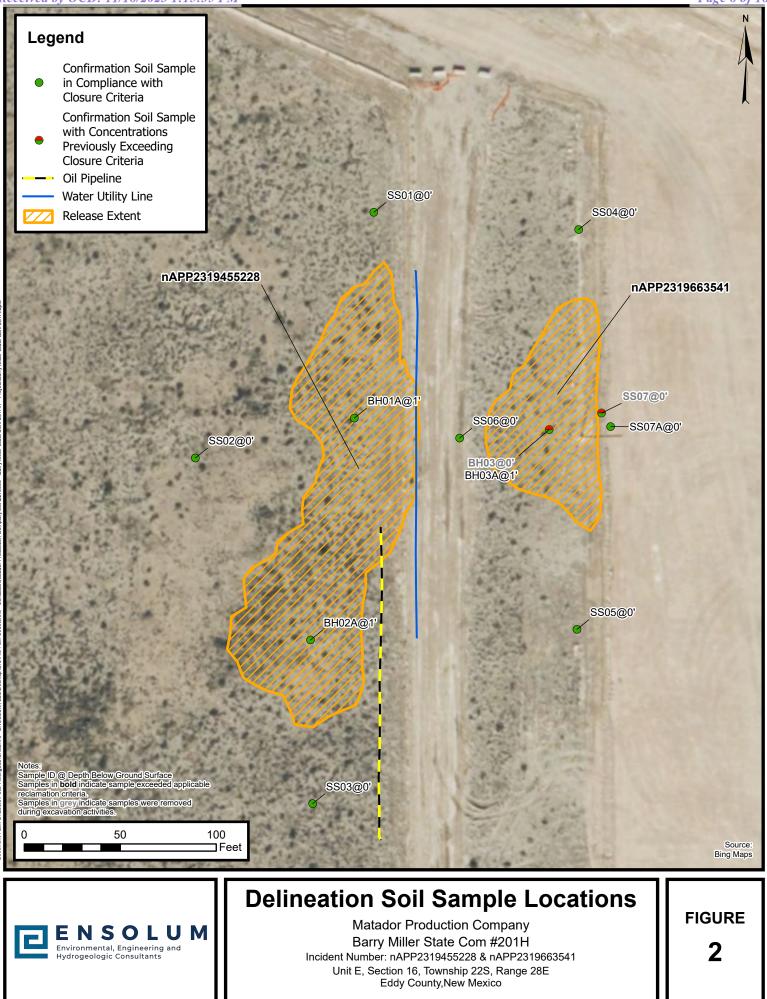


# FIGURES

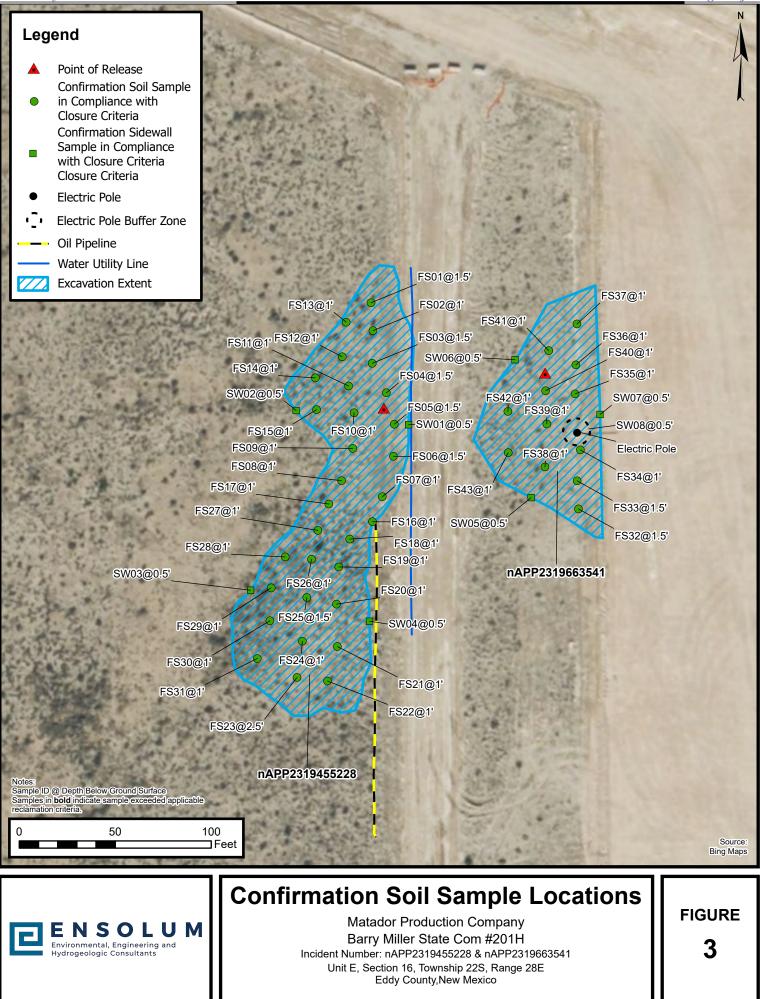
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# TABLES

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	TABLE 1         SOIL SAMPLE ANALYTICAL RESULTS         Matador Production Company         Barry Miller State Com 201H         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	NE	100	600
				Deli	neation Soil Sam	ples				
SS01	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS02	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS03	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS04	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS05	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS06	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	245
SS07	8/3/2023	0	<0.0250	< 0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	1,900
SS07A	9/1/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	199
BH01A	7/21/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	394
BH02A	7/21/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
BH03	8/3/2023	0	<0.0250	< 0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	4,740
BH03A	8/3/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	409

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

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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         Matador Production Company         Barry Miller State Com 201H         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	NE	100	600
		, in the second s		Excava	tion Floor Soil S	amples				
FS01	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS02	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS03	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS06	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS07	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS08	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS09	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS10	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS11	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS12	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS13	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS14	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS15	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS16	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	207
FS17	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS18	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS19	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS20	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS21	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS22	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS23	10/30/2023	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	593

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	TABLE 2 - CONT'D         SOIL SAMPLE ANALYTICAL RESULTS         Matador Production Company         Barry Miller State Com 201H         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	NE	100	600
				Excava	tion Floor Soil S	amples				
FS24	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS25	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS26	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS27	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS28	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS29	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	477
FS30	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	316
FS31	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466
FS32	10/31/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS33	10/31/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS34	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS35	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS36	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS37	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS38	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS39	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS40	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS41	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS42	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS43	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

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TABLE 3         SOIL SAMPLE ANALYTICAL RESULTS         Matador Production Company         Barry Miller State Com 201H         Eddy County, New Mexico										
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SW02	10/27/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
SW03	10/30/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW04	10/30/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW05	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW06	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	298
SW07	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW08	10/30/2023	0.5	<0.0250	<0.0500	<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

Forms 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 Page 16cof 185

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

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

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

## **Location of Release Source**

Latitude 32.393514

Longitude -104.100114 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Barry Miller State Com #201H	Site Type Oil Well
Date Release Discovered 07/12/2023	API# (if applicable) 30-015-53356

Unit Letter	Section	Township	Range	County
D	16	22S	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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 110 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: 12" c	coupling on water transfer pipeline header failed. The spi	Ill impacted an area approximately 12, 292 square ft off-
pad.		

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

 $((12,292 \times 0.083) / 4.21)) \times 0.45 = 109.489$  bbls

	Page 17cof 18
Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	Volume exceeded 25 bbls.
19.15.29.7(A) NMAC?	
🛛 Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\boxtimes$  All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Clint Talley

Signature:

<u>Clint Talley</u>

email: Clinton.talley@matadorresources.com

Title: EHS Supervisor

Date: 07/13/2023

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 7/14/2023

<i>a by OCD:</i>	11/18/2023 1:15:35 PM State	of New	N

Oil Conservation Division

	Page 18 of 185
Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>46</u> (ft bgs)		
Did this release impact groundwater or surface water?			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No		
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No		
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No		
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No		

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

### <u>Characterization Report Checklist</u>: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 11/18/202	3 1:15:35 PM State of New Mexico	wy Mariaa	Page 19 of 185	
			Incident ID	nAPP2319455228
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are re public health or the environme failed to adequately investigate	alley	ications and perform co CD does not relieve the at to groundwater, surfac	prrective actions for rele operator of liability sho ce water, human health iance with any other feo sor	ases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Page 20 of 185

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Clint Talley Title: EHS Supervisor Signature: <u>Clint Talley</u> Date: 07/25/2023 email: Clinton.talley@matadorresources.com Telephone: 337-319-8398 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_\_\_\_\_ Date: Printed Name: Title:

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

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	239985
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By Condition scwells None

CONDITIONS

Action 239985

Condition Date

7/14/2023

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 Page 22:0f 185

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

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party Matador Production Company	OGRID 228937	
Contact Name Clint Talley	Contact Telephone (337) 319-8398	
Contact email clinton.talley@matadorresources.com	Incident # (assigned by OCD) nAPP2319663541	
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240		

### **Location of Release Source**

Latitude 32.393514

Longitude -104.100114 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Barry Miller State Com #201H	Site Type Oil Well
Date Release Discovered 07/14/2023	API# (if applicable) 30-015-53356

Unit Letter	Section	Township	Range	County
D	16	22S	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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20.85 bbls	Volume Recovered (bbls) 8 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A pump was activated while a valve on the lay-flat line was still shut causing the line to burst. The spill impacted an area approximately 4, 682 square ft off-pad.

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

 $((4,682 \times 0.0416) / 4.21)) \times 0.45 = 20.85$  bbls

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	Volume exceeded 25 bbls.
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
11 1 2D, 11 ab 11110 and 0	

## **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\boxtimes$  All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Clint Talley

Signature:

<u>Clint Talley</u> email: Clinton.talley@matadorresources.com Title: EHS Supervisor

Date: 07/25/2023

Telephone: 337-319-8398

OCD Only

Received by: <u>Shelly Wells</u>

Date: 7/27/2023

Page 2

Oil Conservation Division

	Page 24 of 18:
Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>46</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

### <u>Characterization Report Checklist</u>: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Page 6

Oil Conservation Division

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Page 25 of 185

# Closure

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

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

Printed Name: Clint Talley

Signature: <u>Clint Talley</u>

email: Clinton.talley@matadorresources.com

Title: <u>EHS Supervisor</u> Date: 07/25/2023

Telephone: 337-319-8398

**OCD Only** 

Received by: <u>Shelly Wells</u>

Date: 11/20/2023

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

Closure Approved by:	Date:
Printed Name:	Title:

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

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	245063
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By Condition scwells None

CONDITIONS

Action 245063

Condition Date

7/27/2023



# APPENDIX B

**Referenced Wells** 

# New Mexico Office of the State Engineer Point of Diversion Summary

									⊧SW 4=SE	,			
				•	ters ar				<b>o</b> ,	(NAI		M in meters	<b>)</b>
Well Tag	P	OD Number	Q	ee 664 (	Q16 (	24	Sec	Tws	Rng		Х	١	(
NA	С	04702 POD2		2	1	4	18	22S	28E	582	2367	3584016	6 🍑
Driller Licen	Driller Company: WHITE DRILLING COMPANY												
Driller Name	:	JOHN W. WHITE											
Drill Start Da	ate:	02/13/2023	Drill F	inis	sh Da	te:		02/	16/2023	3	Plug	Date:	02/16/2023
Log File Date	e:	03/06/2023	PCW	Rcv	Date	<b>:</b> :					Sour	ce:	Shallow
Pump Type:			Pipe I	Pipe Discharge Size:						Estimated Yield:			ld:
Casing Size:		2.00	Depth	n We	ell:			55 f	feet		Dept	h Water:	46 feet
v	Vate	er Bearing Stratific	ations	:	То	р	Bott	om	Descrip	ption			
			44 50 Sandstone/Gravel/Conglomerate						erate				
		Casing Perfo	rations	5:	То	р	Bott	om					
					3	80		55					

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



APPENDIX C

Lithologic Soil Sampling Logs

				Sample Name: BH01	Date: 07/21/2023
				Site Name: Barry Miller State Com	
	NDU	LU		Incident Number: nAPP231945522	
			H	Job Number: 03A2270009	•
	.OGIC / SOIL SAN			Logged By: Chad Hamitlon	Method: Hand Auger
Coordinates: 32.393222	-			Hole Diameter: 3"	Total Depth: 3'
		ACH Chloride Test Si		PID for chloride and vapor, respecti	
performed with 1:4 dilu					-,
Moisture Content Chloride (ppm) Vapor (ppm)	nple D	mple epth : bgs) Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
Dry 0	ВН01 (	0.5' <b>-</b>	SM	Silty, well sorted, no odor, slight sta	aining tan to white in color
Dry 0	BH01A	1' 1	CN4	Silty, well sorted, no odor, no stain	
Dry 0	BH01B	2' 2	SM	SAA	
Drv 0	BH01C	3' <b>T</b> 3	SM	SAA	

						Sample Name: BH02	Date: 07/21/2023
	ΕΝ	C			R A	Site Name: Barry Miller State Co	
		3		. U		Incident Number: nAPP231945	5228
						Job Number: 03A2270009	
L	LITHOLOGI	C / SOIL S	SAMPLING	LOG		Logged By: Chad Hamitlon	Method: Hand Auger
Coordinates: 32						Hole Diameter: 3"	Total Depth: 1'
						PID for chloride and vapor, resp factors included.	ectively. Chloride test
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions
Dry	0	BH02	0.5'	0	SM		
			П	-		Silty, well sorted, no odor, no s	taining, tan to white in color
Dry	0	BH02A	1' <b> Ť</b>	<u>1</u> Total	<u>SM</u> Depth 1	SAA has	

				Sample Name: BH03	Date: 08/03/2023				
		OLU	RA	Site Name: Barry Miller State Com					
	IN J			Incident Number: nAPP231945522					
				Job Number: 03A2270009					
LITH	OLOGIC / SOIL	SAMPLING LOG		Logged By: Chad Hamitlon	Method: Hand Auger				
Coordinates: 32.393				Hole Diameter: 3"	Total Depth: 1'				
Comments: Field scr distilled water. No co			OHR Meth	od. Chloride test performed with 1	:1 dilution factor of soil to				
Moisture Content Chloride (ppm) Vapor	(ppm) Staining Sample ID	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions				
		0.5'			ing, tan to white in color				
	I BHU3								



# APPENDIX D

# NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands State of New Mexico

### NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

(if applicable)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or has not been surveyed to current standards. A complete archaeological survey will be conducted and submitted for review.

### **Archaeological Survey**

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

### Comments:

### **Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

### **Project Location:**

County(ies): PLSS/Section/Township/Range):

### For NMSLO Agency Use Only:

NMSLO Lease Number:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

Acknowledgment-Only:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule. Form Revised 12 22



APPENDIX E

Photographic Log



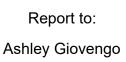






# APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation





5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Matador Resources, LLC.

Project Name: Barry Miller

Barry Miller State Com #201H

Work Order: E307136

Job Number: 23052-0001

Received: 7/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 7/31/23

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

Project Name: Barry Miller State Com #201H Workorder: E307136 Date Received: 7/25/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227)

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

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

Envirotech Web Address: www.envirotech-inc.com



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#### Sample Summary

		Sample Sum	mai y		
Matador Resources, LLC.		Project Name:	Barry Miller State	Com #201H	Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	Number: 23052-0001		Reporteu.
Dallas TX, 75240		Project Manager:	Ashley Giovengo		07/31/23 14:15
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E307136-01A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS02 - 0'	E307136-02A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS03 - 0'	E307136-03A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS04 - 0'	E307136-04A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS05 - 0'	E307136-05A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS06 - 0'	E307136-06A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
BH01A - 1'	E307136-07A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
BH02A - 1'	E307136-08A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.



		ampic D					
Matador Resources, LLC.	Project Name		y Miller Sta	ate Com #2	201H		
5400 LBJ Freeway, Suite 1500	Project Num		52-0001		Reported:		
Dallas TX, 75240	Project Mana	iger: Ash	ley Gioveng	go			7/31/2023 2:15:50PM
		SS01 - 0'					
		E307136-01					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2330031
Benzene	ND	0.0250	1		07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1		07/25/23	07/27/23	
Toluene	ND	0.0250	1		07/25/23	07/27/23	
p-Xylene	ND	0.0250	1		07/25/23	07/27/23	
o,m-Xylene	ND	0.0500	1		07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1		07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	1	Analyst: KN	M		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1		07/25/23	07/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1		07/25/23	07/27/23	
Surrogate: n-Nonane		85.9 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA	A		Batch: 2330052
Chloride	ND	100	5	5	07/25/23	07/27/23	





## Sample Data

		ampie D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 230	y Miller St 52-0001 ley Gioven		n #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
			-	-			
		E307136-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Toluene	ND	0.0250		1	07/25/23	07/27/23	
p-Xylene	ND	0.0250		1	07/25/23	07/27/23	
o,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.9 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		97.1 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.9 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		97.1 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		121 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2330052
Chloride	ND	20.0		1	07/25/23	07/27/23	



## Sample Data

	D	ample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	per: 230	y Miller Sta 52-0001 ley Giovengo	te Com #201H o		<b>Reported:</b> 7/31/2023 2:15:50PM
		SS03 - 0'				
		E307136-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepare	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/2	.3 07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/2	.3 07/27/23	
Toluene	ND	0.0250	1	07/25/2	.3 07/27/23	
-Xylene	ND	0.0250	1	07/25/2	.3 07/27/23	
,m-Xylene	ND	0.0500	1	07/25/2	.3 07/27/23	
Total Xylenes	ND	0.0250	1	07/25/2	.3 07/27/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130	07/25/2	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/25/2	23 07/27/23	
urrogate: Toluene-d8		97.0 %	70-130	07/25/2	23 07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/2	07/27/23	
'urrogate: Bromofluorobenzene		95.8 %	70-130	07/25/2	23 07/27/23	
urrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/25/2	23 07/27/23	
urrogate: Toluene-d8		97.0 %	70-130	07/25/2	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/2	.3 07/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/2	.3 07/27/23	
Surrogate: n-Nonane		93.5 %	50-200	07/25/2	23 07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2330052
Chloride	ND	200	10	07/25/2	.3 07/27/23	



## Sample Data

		ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	ber: 2305	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
		SS04 - 0'					
		E307136-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Toluene	ND	0.0250		1	07/25/23	07/27/23	
p-Xylene	ND	0.0250		1	07/25/23	07/27/23	
o,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.4 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.0 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.4 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.0 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		96.7 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2330052
Chloride	ND	20.0		1	07/25/23	07/27/23	



## Sample Data

	~	ample D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
	Floject Malla	gei. Asii	ley Glover	igo			//31/2023 2.13.301 W
		SS05 - 0'					
		E307136-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Toluene	ND	0.0250		1	07/25/23	07/27/23	
p-Xylene	ND	0.0250		1	07/25/23	07/27/23	
o,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		102 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2330052
Chloride	ND	100		5	07/25/23	07/27/23	



## Sample Data

	~•	ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	y Miller St 52-0001 ley Gioven		1 #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
		SS06 - 0'					
		E307136-06					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Toluene	ND	0.0250		1	07/25/23	07/27/23	
p-Xylene	ND	0.0250		1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		93.3 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		97.4 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		93.3 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		97.4 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КМ		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		107 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2330052
Chloride	245	200	1	10	07/25/23	07/27/23	



## Sample Data

	D	ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
		BH01A - 1'					
		E307136-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Toluene	ND	0.0250		1	07/25/23	07/27/23	
p-Xylene	ND	0.0250		1	07/25/23	07/27/23	
o,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.6 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		99.5 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		94.6 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		99.5 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		99.3 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2330052
Chloride	394	200		10	07/25/23	07/27/23	



## Sample Data

		ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2305	y Miller St 52-0001 ley Gioven		n #201H		<b>Reported:</b> 7/31/2023 2:15:50PM
		BH02A - 1'					
		E307136-08					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Benzene	ND	0.0250		1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250		1	07/25/23	07/27/23	
Foluene	ND	0.0250		1	07/25/23	07/27/23	
o-Xylene	ND	0.0250		1	07/25/23	07/27/23	
o,m-Xylene	ND	0.0500		1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		95.2 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		96.5 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/23	07/27/23	
Surrogate: Bromofluorobenzene		95.2 %	70-130		07/25/23	07/27/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		07/25/23	07/27/23	
Surrogate: Toluene-d8		96.5 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/23	07/27/23	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/23	07/27/23	
Surrogate: n-Nonane		125 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2330052
Chloride	ND	200	1	10	07/25/23	07/27/23	



## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		nry Miller Stat 052-0001	e Com #2	201H			Reported:
Dallas TX, 75240		Project Manager:	As	hley Giovengo	)			7	//31/2023 2:15:50PM
		Volatile Organic	Compo	unds by EP.	A 82601	В			Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330031-BLK1)							Prepared: 0'	7/25/23 An	alyzed: 07/27/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
-			0.500		101	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
LCS (2330031-BS1)							Prepared: 0'	7/25/23 An	alyzed: 07/27/23
Benzene	2.43	0.0250	2.50		97.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.6	70-130			
Foluene	2.38	0.0250	2.50		95.0	70-130			
p-Xylene	2.38	0.0250	2.50		95.0	70-130			
o,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Fotal Xylenes	7.12	0.0250	7.50		94.9	70-130			
Surrogate: Bromofluorobenzene	0.468		0.500		93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			
Matrix Spike (2330031-MS1)				Source: I	2307136-	02	Prepared: 07/25/23 Analyzed: 07/27/23		alyzed: 07/27/23
Benzene	2.37	0.0250	2.50	ND	94.6	48-131	1		•
Ethylbenzene	2.30	0.0250	2.50	ND	91.9	45-135			
Foluene	2.30	0.0250	2.50	ND	92.8	48-130			
p-Xylene	2.32	0.0250	2.50	ND	96.2	43-135			
o,m-Xylene	4.76	0.0500	5.00	ND	95.2	43-135			
			7.50	ND	95.6	43-135			
Total Xylenes	/.1/								
Fotal Xylenes	7.17	0.0250	0.500		94 2	70-130			
Surrogate: Bromofluorobenzene	0.471	0.0230	0.500		94.2	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.471 0.499	0.0250	0.500		99.8	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.471	0.0250			99.8 97.0	70-130 70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1)	0.471 0.499 0.485		0.500 0.500	Source: I	99.8 97.0 <b>2307136-</b>	70-130 70-130 02			alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene	0.471 0.499 0.485 2.35	0.0250	0.500 0.500 2.50	Source: H	99.8 97.0 <b>2307136-</b> 94.0	70-130 70-130 <b>02</b> 48-131	0.636	23	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene	0.471 0.499 0.485 2.35 2.26	0.0250 0.0250	0.500 0.500 2.50 2.50	Source: F ND ND	99.8 97.0 2 <b>307136-</b> 94.0 90.4	70-130 70-130 02 48-131 45-135	0.636 1.60	23 27	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene Foluene	0.471 0.499 0.485 2.35 2.26 2.30	0.0250 0.0250 0.0250	0.500 0.500 2.50 2.50 2.50	Source: F ND ND ND	99.8 97.0 2 <b>307136-</b> 94.0 90.4 92.0	70-130 70-130 02 48-131 45-135 48-130	0.636 1.60 0.888	23 27 24	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene	0.471 0.499 0.485 2.35 2.26 2.30 2.36	0.0250 0.0250 0.0250 0.0250	0.500 0.500 2.50 2.50 2.50 2.50 2.50	Source: F ND ND ND ND	99.8 97.0 2 <b>307136-</b> 94.0 90.4 92.0 94.4	70-130 70-130 02 48-131 45-135 48-130 43-135	0.636 1.60 0.888 1.80	23 27 24 27	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene Foluene	0.471 0.499 0.485 2.35 2.26 2.30 2.36 4.68	0.0250 0.0250 0.0250	0.500 0.500 2.50 2.50 2.50 2.50 2.50 5.00	Source: F ND ND ND ND ND	99.8 97.0 2307136- 94.0 90.4 92.0 94.4 93.5	70-130 70-130 02 48-131 45-135 48-130 43-135 43-135	0.636 1.60 0.888 1.80 1.83	23 27 24 27 27	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Senzene Ethylbenzene Foluene >-Xylene	0.471 0.499 0.485 2.35 2.26 2.30 2.36	0.0250 0.0250 0.0250 0.0250	0.500 0.500 2.50 2.50 2.50 2.50 2.50	Source: F ND ND ND ND	99.8 97.0 2 <b>307136-</b> 94.0 90.4 92.0 94.4	70-130 70-130 02 48-131 45-135 48-130 43-135	0.636 1.60 0.888 1.80	23 27 24 27	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene Foluene o-Xylene o,m-Xylene	0.471 0.499 0.485 2.35 2.26 2.30 2.36 4.68	0.0250 0.0250 0.0250 0.0250 0.0250 0.0500	0.500 0.500 2.50 2.50 2.50 2.50 2.50 5.00	Source: F ND ND ND ND ND	99.8 97.0 2307136- 94.0 90.4 92.0 94.4 93.5	70-130 70-130 02 48-131 45-135 48-130 43-135 43-135	0.636 1.60 0.888 1.80 1.83	23 27 24 27 27	alyzed: 07/27/23
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330031-MSD1) Benzene Ethylbenzene Foluene D-Xylene D-Xylene Fotal Xylenes	0.471 0.499 0.485 2.35 2.26 2.30 2.36 4.68 7.04	0.0250 0.0250 0.0250 0.0250 0.0250 0.0500	0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50	Source: F ND ND ND ND ND	99.8 97.0 2307136- 94.0 90.4 92.0 94.4 93.5 93.8	70-130 70-130 02 48-131 45-135 48-130 43-135 43-135 43-135	0.636 1.60 0.888 1.80 1.83	23 27 24 27 27	alyzed: 07/27/23



## **QC Summary Data**

Matador Resources, LLC.Project Name:Barry Miller State Com #201H5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo		Reported:
		7/31/2023 2:15:50PM
Nonhalogenated Organics by EPA 8015D - GRO		Analyst: IY
Analyte Reporting Spike Source Rec Result Limit Level Result Rec Limits	RPD Limi	
mg/kg mg/kg mg/kg mg/kg %	% %	Notes
Blank (2330031-BLK1) Prep	pared: 07/25/23	Analyzed: 07/27/23
Gasoline Range Organics (C6-C10) ND 20.0		
Surrogate: Bromofluorobenzene 0.471 0.500 94.1 70-130		
Surrogate: 1,2-Dichloroethane-d4 0.459 0.500 91.8 70-130		
Surrogate: Toluene-d8 0.504 0.500 101 70-130		
LCS (2330031-BS2) Prep	pared: 07/25/23	Analyzed: 07/27/23
Gasoline Range Organics (C6-C10)         50.1         20.0         50.0         100         70-130		
Surrogate: Bromofluorobenzene 0.471 0.500 94.1 70-130		
Surrogate: 1,2-Dichloroethane-d4 0.487 0.500 97.4 70-130		
Surrogate: Toluene-d8 0.498 0.500 99.6 70-130		
Matrix Spike (2330031-MS2) Source: E307136-02 Prep	pared: 07/25/23	Analyzed: 07/27/23
Gasoline Range Organics (C6-C10)         51.3         20.0         50.0         ND         103         70-130		
Surrogate: Bromofluorobenzene 0.480 0.500 95.9 70-130		
Surrogate: 1,2-Dichloroethane-d4 0.502 0.500 100 70-130		
Surrogate: Toluene-d8 0.499 0.500 99.7 70-130		
Matrix Spike Dup (2330031-MSD2)         Source: E307136-02         Prep	pared: 07/25/23	Analyzed: 07/27/23
Gasoline Range Organics (C6-C10)         49.0         20.0         50.0         ND         98.0         70-130	4.56 20	
Surrogate: Bromofluorobenzene 0.475 0.500 94.9 70-130		
Surrogate: 1,2-Dichloroethane-d4 0.494 0.500 98.8 70-130		
Surrogate: Toluene-d8 0.496 0.500 99.1 70-130		



## **QC Summary Data**

		QC DI		aly Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Barry Miller State 23052-0001 Ashley Giovengo	Com #	201H			<b>Reported:</b> 7/31/2023 2:15:50PM
	Nonha	alogenated Orga	anics b	y 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
DI 1 (2220050 DI 1/1)							<b>D</b> 10		1 1.07/26/22
Blank (2330050-BLK1)							Prepared: 0	1/25/23 A	analyzed: 07/26/23
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 (2330050-BS1)							Prepared: 0	7/25/23 A	analyzed: 07/26/23
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			
Matrix Spike (2330050-MS1)				Source: E3	07123-	33	Prepared: 0	7/25/23 A	analyzed: 07/26/23
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			
Matrix Spike Dup (2330050-MSD1)				Source: E3	07123-	33	Prepared: 0	7/25/23 A	analyzed: 07/26/23
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	1.70	20	
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			



## **QC Summary Data**

		<b>X</b> U V	•••••						
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager		Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 7/31/2023 2:15:50PM
		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
Blank (2330052-BLK1)							Prepared: 0	7/25/23 A	analyzed: 07/27/23
Chloride	ND	20.0							
LCS (2330052-BS1)							Prepared: 0	7/25/23 A	analyzed: 07/27/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2330052-MS1)				Source:	E307136-	01	Prepared: 0	7/25/23 A	analyzed: 07/27/23
Chloride	259	100	250	ND	104	80-120			
Matrix Spike Dup (2330052-MSD1)				Source:	E307136-	01	Prepared: 0	7/25/23 A	analyzed: 07/27/23
Chloride	264	100	250	ND	106	80-120	1.82	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.



Γ	Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/31/23 14:15

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release

Received by OCD: 11/18/2023 1:15:35 PM

	Matador Prod				Bill To		Constant and			se Or		C. C.	W			AT	EPA P	rogram
	Barry Miller				Attention: Matador Production	on Company	Lab WC	)#	-	Job	Num	ber 	1D	2D	3D	Standard	CWA	SDW
	Manager: As				Address: on file	-1	E 30		so	23	051	,-0001				x		
Contraction of the local distance of the loc	: 3122 Natio		and the second se		City, State, Zip:			-		Analy	/sis a	nd Metho	d					RCRA
	te, Zip: Carls		88220		Phone: (337)319-8398		h											
	575-988-005				Email: clinton.talley@matado	rresources.con	ORC										State	
	giovengo@e	nsolum.c	com				RO/	21	0	0	0.0		WN		X	NM CO	UT AZ	TX
Report d	lue by:		_				10)C	y 80	826	601	e 30					×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
8:45	7/21/2023	Soil	1 Jar		SS01 - 0'	1							x					
8:51	7/21/2023	Soil	1 Jar		SS02 - 0'	2							x			6		
8:55	7/21/2023	Soil	1 Jar		SS03 - 0'	3							x					
9:00	7/21/2023	Soil	1 Jar		SS04 - 0'	4		12					x					
9:05	7/21/2023	Soil	1 Jar	1	SS05 - 0'	5							x					
10:50	7/21/2023	Soil	1 Jar		SS06 - 0'	6							x					
9:38	7/21/2023	Soil	1 Jar		BH01A -1'	7							x					
9:39	7/21/2023	Soil	1 Jar		BH02A - 1'	8							x					
								-					-	-				
Addition	al Instructio	ns: Plea	ise CC: ck	ourton@ensolu	m.com, agiovengo@ensolum.com								-	-		_	_	
				ty of this sample. I ar y be grounds for lega	n aware that tampering with or intentionally mill action. Sampled by:	islabelling the samp	le location,	-	-							ceived on ice the day ess than 5 °C on sub:		led or
Relinguish	ed by: (Signatur ed by: (Signatur	re)	Date 7, Date	- 2 4- 23 Time	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Date	23 Tim	130	e	Rece	eived	on ice:		ab U:	se On I	ly		
Un	1 Unn	Carl	7: Date	142315	37 Moren MUSSo	7.24		62	00	<u>T1</u>			<u>T2</u>			<u></u> <u>T3</u>		
All	ed by: (Signatur	11152	, 7.	24.2322	15 Cartla Man	- 7ks/2	3 8	:15	-	AVG			4			ang the star		
	trix: S - Soil, Sd - S		-			Container												
vote: Sam	applicable only	to these	atter resul	its are reported unl	ess other arrangements are made. Hazar tory with this COC. The liability of the labo	dous samples will	be return	ed to c	lient o	or disp	osed	of at the cl	ient e	expens	e. Th	e report for the	analysis of t	the above

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

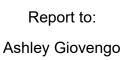
<ul> <li>3. Were samples dropped off by client or carrier?</li> <li>4. Was the COC complete, i.e., signatures, dates/times, requested analyses?</li> <li>4. Was the COC complete, i.e., signatures, dates/times, requested analyses?</li> <li>4. Wes the COC indicates standard TAI, or Expedited Inthe field, i.e., 15 minute hold ing, ere no included in this discussion.</li> <li>5. Sample Cooler</li> <li>7. Was a sample cooler received in good condition?</li> <li>9. Was the sample(s) received intact, i.e., not broken?</li> <li>9. Was the sample(so) received intact, i.e., not broken?</li> <li>9. Was the sample cooler received?</li> <li>9. Was the sample cooler received?</li> <li>10. Were custody/security seals intact?</li> <li>11. If yes, were custody/security seals intact?</li> <li>12. Was the sample cooler decived in the reperature. Actual sample temperature?</li> <li>13. If no visible ice, record the temperature. Actual sample temperature?</li> <li>14. Arr aqueous VOC samples present?</li> <li>14. Arr aqueous VOC samples collected in VOA Vials?</li> <li>15. Are VOC samples collected in the orrect containers?</li> <li>16. Is the head pace less than 6-4 mm (pae sized or less)?</li> <li>17. Was a trip blank (TB) included for VOC analyses?</li> <li>18. Are non-VOC samples collected in the orrect containers?</li> <li>19. Is the appropriate volume/weight or number of sample containes collected?</li> <li>Yes</li> <li>5. Sample Ized.</li> <li>5. Sample Ized.</li> <li>5. Are sample to correctly reserved?</li> <li>10. Detar (Time Collected?)</li> <li>10. Detar (Time Collected?)</li> <li>10. Detar (Time Collected?)</li> <li>10. Brok correctly reserved?</li> <li>10. The collected?</li> <li>Yes</li> <li>5. Sample Ized.</li> <li>5. The Mal pace and the manihum information:</li> <li>5. Sample Ized.</li> <li>5. Are sample to correctly reserved?</li> <li>10. The collected?</li> <li>10. The collec</li></ul>	Client: Matador Resources, LLC. Date Received:	07/25/23 (	J8:15	Work Order ID:	E307136
Chain of Custody (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, datestimes, requested analyses?       Yes         5. Were all samples received within holding time?       Yes         5. Were all samples received within holding time?       Yes         Sample Conder       Yes         6. Did the COC indicate standard TAT, or Expedited TAT?       Yes         Sample Conder       Yes         7. Was a sample cooler received in good condition?       Yes         9. Was the sample's preview of infact, i.e., ont broken?       Yes         9. Was the sample's received on is not required. If samples are excited with 15 monte tool samples and the reperture. Actual sample temperature: $\frac{4^{oo}}{2^{oo}}$ Yes         11. If yes, were custody/security seals intact?       No       NA         12. Was the stangle's prevent in the minimum information:       Sample Condition       Yes         13. If no visible ice, record the temperature. Actual sample comperature: $\frac{4^{oo}}{2^{oo}}$ Yes         14. Are aqueous VOC samples present?       No         15. Are VOC samples collected in the ornet container?       Yes         21. Does the sample tables filled out with the minimum information:       Sample Contrine<	Phone: (972) 371-5200 Date Logged In:	07/25/23	08:39	Logged In By:	Caitlin Mars
1. Does the sample ID match the COC?     Yes       2. Does the number of sampling site location match the COC     Yes       3. Were samples does sampling site location match the COC     Yes       4. Wis the COC complete, i.e., signatures, dates/times, requested analyses?     Yes       5. Were all analysis received within holding time?     Yes       5. Were all analysis received within holding time?     Yes       5. Did the COC indicate standard TAT, or Expedited TAT?     Yes       5. Mine analysis, was cooler received?     Yes       7. Was a sample cooler received?     Yes       8. If yes, was cooler received?     Yes       9. Was the sample/s present?     No       10. Were custody/security scals present?     No       11. If yes, were custody/security scals intact?     Yes       12. Was the sample cooler received with the temperature:     4°C       13. If no visible (ce, record the temperature.     4°C, i.e., 6°-2°C     Yes       Note: Charmal preservation is not required, if samples are received with 15     minute of sampling       14. Are augueous VOC samples collected in VOA Yals?     NA       15. Are VOC samples collected in the Ore cratiners?     Yes       16. Is the head space los than 6-8 mm (pea sized or less)?     NA       17. Was a trip black (TB) included for VOC analyse?     NA       19. Is the appreprime volonare/veing of or number of sample containers collected? </th <th>Email: agiovngo@ensolum.com Due Date:</th> <th>07/31/23</th> <th>17:00 (4 day TAT)</th> <th></th> <th></th>	Email: agiovngo@ensolum.com Due Date:	07/31/23	17:00 (4 day TAT)		
<ul> <li>2. Does the number of samples per sampling site location match the COC Yes</li> <li>3. Were samples dropped off by client or carrier?</li> <li>4. Was the COC complete, i.e., signatures, dates/times, requested analyses?</li> <li>5. Were all samples received within holding time?</li> <li>Yes</li> <li>Note: Analysis, subs. appl. Vint. Analysis, Subs. Subs. Not. Subs. Subs.</li></ul>	Chain of Custody (COC)				
<ul> <li>Were samples dropped off by client or carrier?</li> <li>Yes</li> <li>Was the COC complete, i.e., signatures, dates/times, requested analyses?</li> <li>Yes</li> <li>Note: Analysis, such as pit which should be conducted in the field, i.e. is for innue hold ine, ere on the tubed in this discussion.</li> <li>Sample Cocler received mite GATAT</li> <li>Sample Cocler received in good condition?</li> <li>Yes</li> <li>Yes</li> <li>Stree castody/security seals present?</li> <li>No</li> <li>I. fryes, was coeler received in good condition?</li> <li>Yes</li> <li>Sample cooler received?</li> <li>No: there anyle received intext, i.e., not broken?</li> <li>Yes</li> <li>Yes</li> <li>No: there anyle received intext, i.e., not broken?</li> <li>Yes</li> <li>No: there anyle received?</li> <li>No: there anyle received?</li> <li>No: there anyle received?</li> <li>No: there anyle received in iter (f. samples are received with 15 minutes of samples of samples collected in VOA Vials?</li> <li>No visible ice, record the temperature. Actual sample temperature: 4<sup>a</sup>C</li> <li>Sample Contention:</li> <li>Sample Contention:</li> <li>Sample collected in VOA Vials?</li> <li>No</li> <li>I. fro visible ice, record the temperature. Actual sample temperature: 4<sup>a</sup>C</li> <li>Sample Contention:</li> <li>Sample collected in VOA Vials?</li> <li>No</li> <li>I. the outport of samples contentices collected?</li> <li>Yes</li> <li>Date? Time Collected?</li> <li>Yes</li> <li>Sample 102</li> <li>Yes</li> <li>Sample 102</li> <li>Yes</li> <li>Sample Inter Cor field tabelis inflicator the samples were preserved?</li> <li>No</li> <li>Sample Intervervation</li> <li>Sample Int</li></ul>	1. Does the sample ID match the COC?	Yes			
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes New Examples, and the Which Should be conduced in the field, i.e. 15 minute hold time, are not included in this discession. Sample Curn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes 8. If yes, was cooler received? Yes 8. If yes, was cooler received? Yes 9. Was the sample (s) received intact, i.e., not broken? Yes 9. Was the sample (s) received intact, i.e., not broken? Yes 10. Were clastody/security seals intact? No 11. If yes, were custody/security seals intact? No 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°E-2°C Yes Note: the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°E-2°C Yes Note: the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°E-2°C Yes Note: the angenese relation is not required, if samples are received wit 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 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 (C) of field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No 23. Are sample (s) correctly preserved? No 24. Are sample have more than one phase, i.e., multiphase? No Multiphase Sample Multich Subcontract Laberatorn 27. Are sample sequired to g secont to a subcontract laboratory? No Subcontract Laberatorn 27. Are sample required to get sect to a subcontract laboratory? No Subcontract Laberatorn Subcontract Laberatorn Subcontract Laberatorn Subcontract Laberatorn Subcontract Laberatorn Subcontrac		Yes			
4. Was the COC complets, i.e., signatures, dates/times, requested analyses? Yes Nere analyses, auch appl which should be conducted in the field. i.e. 15 minute bold time, are not included in this discussion. Samble Curr Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes 8. fryse, was cooler received? Yes 8. fryse, was cooler received? Yes 8. fryse, was cooler received? Yes 9. Was the sample(s) received in good condition? Yes 9. Was the sample(sy) received intact, i.e., not broken? Yes 9. Was the sample coiler received intact, i.e., not broken? Yes 9. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6'+2°C 9. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6'+2°C 8. Tryse, were custed/security seals intact? No 11. If yes, were custed/security seals intact? No 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6'+2°C 8. To such the advect the temperature. Actual sample temperature: $\frac{4^{2}C}{2^{2}}$ 5. Amound to No Xial? No 13. frow visible ice, record the temperature: Actual sample temperature: $\frac{4^{2}C}{2^{2}}$ 15. arv OC samples collected in VO Xial? No 16. Is the head space less than 6.8 mm (pea sized or less)? 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 canalyses? Na 19. Is the appropriate volume/weight or number of sample containers collected? Yes 5. Collectors name? Yes 5. DataseTime Collected? Yes 5. Collectors name? Yes 5. DataseTime Collected? Yes 5. Collectors name? Yes 5. DataseTime Collected? No 21. Arv sample (s) correcity preserved? No 22. Arv sample(s) correcity preserved? No 23. Arv sample(s) correcity preserved? No 24. Is ha filteration required and/or requested for dissolved metals? No 5. Collectors name? Yes 5. Collectors name? Yes 5. Collectors name? No 5. Arv sample(s) correcity preserved? No 2. Arv sample(s) correcity which plause(s) is to be analyzed? No 5. Arv sample(s) correcity preserv	3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier		
Noti: Analysis, such as pH which should be conduced in the field, i.e. (F minue hold imue, ne not included in this discussion. Sample Color 6. Did the COC indicate standard TAT, or Espedited TAT? Yes Sample Color received? Yes 8. If yes, was color received? Yes 9. Was has asample (so corwid mitact, i.e., no throken? Yes 9. Was the sample received in good condition? Yes 9. Was the sample received in its? Mo 11. If yes, were custody/security seals present? No 12. Was the sample received on its? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wil 15 minutes of samples 13. If no visible ics, record the temperature. Actual sample temperature: 4°C Sample Continer 14. Are squecus VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 15. Sare VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was at tip blank (TB) included for VOC analyses? NA 17. Was at tip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the orient containers? Yes 19. Is the papeopriate volume/weight or number of sample containers collecto? Yes Collectors name? Yes Sample ID? Yes Collectors name? Yes Sample ID? Yes Collectors field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No 23. Are sample(s) correctify preserved? No 24. Are sample(s) correctify preserved? No 25. Are sample(s) correctify preserved? No 27. If yes, does the COC specify which phase(t) is to be analyzed? No 27. If yes, does the COC specify which phase(t) is to be analyzed? No 27. If yes, does the COC specify which phase(t) is to be analyzed? No 27. If yes, does the COC specify which phase(t) is to be analyzed? No 27. If yes, does the COC specify which phase(t) is to be analyzed? No 27. Are samples required to get sent to a subcontract laboratory? No 28. Are samples required to get sent to a subcontract laboratory? No 29. Are samples required	4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes			
6. Did the COC indicate standard TAT, or Expedited TAT?       Yes         Sample Cooler       Yes         7. Was a sample cooler received in good condition?       Yes         8. If yes, was cooler received in good condition?       Yes         9. Was the sample cooler received in good condition?       Yes         10. Were custody/security seals intact?       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         Moto: Thermal preservation is not required, if samples are received wit 15       MA         13. If no visible ice, record the temperature. Actual sample temperature: 4°C       Yes         Sample Container       No         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 arip blank (TB) included for VOC analyses?       NA         18. Are non-VOC samples collected in the correct containers?       Yes         20. Were field sample labels filled out with the minimum information:       Sample TO:         Sample TO:       Yes         21. Joes the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved? <td>Note: Analysis, such as pH which should be conducted in the field,</td> <td>Yes</td> <td></td> <td>Commen</td> <td>ts/Resolution</td>	Note: Analysis, such as pH which should be conducted in the field,	Yes		Commen	ts/Resolution
Sample Cooler         7. Was a sample cooler received?       Yes         8. If yes, was cooler received intact, i.e., not broken?       Yes         9. Was the sample (so)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         Nuce: Thermal preservation is not required, if samples are received wi 15 minutes of sampling       Sample Container         13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> 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 collected?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         2. Are sample(s) correcity preserved?       No	<u>Sample Turn Around Time (TAT)</u>				
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         Not: Themal preservation is not required, if samples are received wii 15       minutes of sampling         13. If no visible ice, record the temperature. Actual sample temperature: 4°C       Zennel Container         14. Are aqueous VOC samples present?       No         15. Are VOC samples present?       No         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         D. Is the appropriate volume/weight or number of sample containers collected?       Yes         Collectors name?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Date/Time Collected?       Yes         2. Are sample(s) correctly preserved?       No         2. Are sample(s) correctly preserved?       No         A.	6. Did the COC indicate standard TAT, or Expedited TAT?	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?       No         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 wil 15 minitues of sampling       No         13. If no visible ice, record the temperature. Actual sample temperature: 4°C       Yes         Sample Container       No         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         Pield Label       Yes         20. Were field sample labels filled out with the minimum information: Sample ID?       Yes         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         21. Lobes the COC specify which phase(s) is to be analyzed?       No         Multiphase Sample Matrix       No         22. Are sample (so) correci	Sample Cooler				
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         Not: Thermal preservation is not required, if samples are received wii 15 minutes of sampling       NA         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 at trip bank (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         Collectors name?       Yes         Collectors name?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         Multiphase Sample Matrix       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sampl	*	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         Not: Thermal preservation is not required, if samples are received wi 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         Date/Time Collected?       Yes         Collectors name?       Yes         Collectors name?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         21. Does the COC specify preserved?       NA         24. Are sample (s) correctly preserved?       Na         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         26. Are sample have more than one phase, i.e., multiphase?       No <t< td=""><td></td><td>Yes</td><td></td><td></td><td></td></t<>		Yes			
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 wi 15 minutes of sampling       Item is not sample searce received wi 15 minutes of samples         13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> Sample Container         14. Are aqueous VOC samples collected in VOA Vials?       NA         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         D Is the appropriate volume/weight or number of sample containers collected?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Collectors name?       Yes         Collectors rame?       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       No         23. Los suce COC or field labels indicate the samples were preserved?       No         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix <td>9. Was the sample(s) received intact, i.e., not broken?</td> <td>Yes</td> <td></td> <td></td> <td></td>	9. Was the sample(s) received intact, i.e., not broken?	Yes			
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 at rip blank (TB) included for VOC analyses?       NA         18. Are non-VOC samples collected in the correct containers?       Yes         Pield tabel       Yes         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample Collected?       Yes         Collectors name?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       No         23. Los the Sample Matrix       No         26. Does the Sample Matrix       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       No         28. Are samples required to get sent to a subcontract laborator?       No         28. Are samples required to get sent to a subcontract laborator	10. Were custody/security seals present?	No			
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         16. Is the head space less than 6-8 mm (pea sized or less)?       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         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Collectors name?       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       Na         24. Is lab filteration required and/or requested for dissolved metals?       No         26. Does the Sample Martin       Yes         26. Does the Sample have more than o	11. If yes, were custody/security seals intact?	NA			
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         20. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Zo. Does the cOC specify which phase(s) is to be analyzed?       Na         25. Are sample (SO correctly preserved?       No       No         7. If yes, does the COC specify which phase(s) is to be analyzed?       Na         28. Are samples required to get sent to a subcontract laboratory?       No	Note: Thermal preservation is not required, if samples are received w/i 15	Yes			
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       Yes         20. Were field sample labels filled out with the minimum information: Sample ID? Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       No         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase 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       No         28. Are samples required to get sent to a subcontract laboratory?       No	13. If no visible ice, record the temperature. Actual sample temperature:	4°C			
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       Yes         20. Were field sample labels filled out with the minimum information:       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       No         23. Are sample have more than one phase, i.e., multiphase?       No         24. Is labe filteration required and/or requested for dissolved metals?       No         27. If yes, does the COC specify which phase(s) is to be analyzed?       No         28. Are samples have more than one phase, i.e., multiphase?       No         29. Collectors are sample have more than one phase, i.e., multiphase?       No         20. Does the COC specify which phase(s) is to be analyzed?       No         29. Are samples required to get sent to a subcontract laborator?       No	Sample Container				
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       Yes         20. Were field sample labels filled out with the minimum information:       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Sample freservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       Na         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         26. Does the sample have more than one phase, i.e., multiphase?       No         7. If yes, does the COC specify which phase(s) is to be analyzed?       Na         Subcontract Laboratory       No         Subcontract Laboratory       No	14. Are aqueous VOC samples present?	No			
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       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         7. If yes, does the COC specify which phase(s) is to be analyzed?       NA         Subcontract Laboratory       No         28. Are samples required to get sent to a subcontract laboratory?       No	15. Are VOC samples collected in VOA Vials?	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?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       Na         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         26. Does the sample have more than one phase, i.e., multiphase?       No         77. If yes, does the COC specify which phase(s) is to be analyzed?       NA         Subcontract Laboratory       No         28. Are samples required to get sent to a subcontract laboratory?       No	16. Is the head space less than 6-8 mm (pea sized or less)?	NA			
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:       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         26. Does the sample have more than one phase, i.e., multiphase?       No         7. If yes, does the COC specify which phase(s) is to be analyzed?       NA         Subcontract Laboratory       No         28. Are samples required to get sent to a subcontract laboratory?       No	17. Was a trip blank (TB) included for VOC analyses?	NA			
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       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         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       No         28. Are samples required to get sent to a subcontract laborator??       No	18. Are non-VOC samples collected in the correct containers?	Yes			
20. Were field sample labels filled out with the minimum information:       Yes         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Sample Preservation       Yes         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       Yes         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       Na         28. Are samples required to get sent to a subcontract laboratory?       No	19. Is the appropriate volume/weight or number of sample containers collected?	Yes			
Sample ID?YesDate/Time Collected?YesCollectors name?YesSample PreservationYes21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample MatrixYes26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NaSubcontract LaboratoryNa28. Are samples required to get sent to a subcontract laboratory?No	Field Label				
Date/Time Collected? Collectors name?YesSample PreservationYes21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample MatrixNo26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NaSubcontract LaboratoryNa28. Are samples required to get sent to a subcontract laboratory?No	-				
Collectors name?YesSample PreservationYes21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample MatrixYes26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NaSubcontract LaboratoryYes28. Are samples required to get sent to a subcontract laboratory?No	*				
Sample Preservation       No         21. Does the COC or field labels indicate the samples were preserved?       No         22. Are sample(s) correctly preserved?       NA         24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       No         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       NA         28. Are samples required to get sent to a subcontract laboratory?       No					
21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample Matrix		105			
22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample Matrix		No			
24. Is lab filteration required and/or requested for dissolved metals?       No         Multiphase Sample Matrix       26. Does the sample have more than one phase, i.e., multiphase?       No         26. Joes the conception of 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       No	· ·				
Multiphase Sample Matrix26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NASubcontract LaboratoryZ28. Are samples required to get sent to a subcontract laboratory?No					
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       NA         28. Are samples required to get sent to a subcontract laboratory?       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		No			
28. Are samples required to get sent to a subcontract laboratory? No					
28. Are samples required to get sent to a subcontract laboratory? No	Subcontract Laboratory				
		No			
			Subcontract Lab: na		

e

Date

envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Matador Resources, LLC.

Project Name: Barry

Barry Miller State Com #201H

Work Order: E308036

Job Number: 23052-0001

Received: 8/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/10/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/10/23

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

Project Name: Barry Miller State Com #201H Workorder: E308036 Date Received: 8/7/2023 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2023 7:45:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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.

**Raina Schwanz** 

Laboratory Administrator

Office: 505-632-1881

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com rainaschwanz@envirotech-inc.com

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

**Alexa Michaels** 

Sample Custody Officer

labadmin@envirotech-inc.com

Office: 505-632-1881

Envirotech Web Address: www.envirotech-inc.com



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#### **Sample Summary**

		Sample Sum	mai y		
Matador Resources, LLC.		Project Name:	Barry Miller State C	Com #201H	Deperted
5400 LBJ Freeway, Suite 1500		Project Number:	23052-0001		Reported:
Dallas TX, 75240		Project Manager:	Ashley Giovengo		08/10/23 10:32
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07 - 0'	E308036-01A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.
BH03 - 0'	E308036-02A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.
BH03 - 1'	E308036-03A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.



	D	ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		y Miller State Co 52-0001	m #201H		Reported:
Dallas TX, 75240	Project Mana		ley Giovengo			8/10/2023 10:32:24AM
24140 11, 702.0	110,000 111414	-	ley one enge			
		SS07 - 0'				
		E308036-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
p-Xylene	ND	0.0250	1	08/07/23	08/08/23	
o,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
Surrogate: n-Nonane		93.4 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2332014
Chloride	1900	200	10	08/07/23	08/08/23	

## Sample Data



## Sample Data

		ampie D				
Matador Resources, LLC.	Project Name	: Barı	y Miller State Cor	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	52-0001			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			8/10/2023 10:32:24AM
		BH03 - 0'				
		E308036-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
p-Xylene	ND	0.0250	1	08/07/23	08/08/23	
p,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.7 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
Surrogate: n-Nonane		76.7 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2332014
Chloride	4740	400	20	08/07/23	08/08/23	

## Sample Data

		ampic D	uu			
Matador Resources, LLC.	Project Name		y Miller State Co	m #201H		
5400 LBJ Freeway, Suite 1500	Project Numb		52-0001			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			8/10/2023 10:32:24AN
		BH03 - 1'				
		E308036-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
o-Xylene	ND	0.0250	1	08/07/23	08/08/23	
o,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.9 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
Surrogate: n-Nonane		131 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2332014
Chloride	409	200	10	08/07/23	08/08/23	

## **QC Summary Data**

		<u>V</u> UD		J					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	nrry Miller Sta 052-0001		01H			<b>Reported:</b> 8/10/2023 10:32:24AM
Dallas TX, 75240		Project Manager:	As	shley Gioveng	go				8/10/2023 10:52:24AM
		Volatile O	rganics b	y EPA 802	21 <b>B</b>				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332010-BLK1)							Prepared: 0	8/07/23 A	nalyzed: 08/07/23
Benzene	ND	0.0250					-		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0230							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.08	0.0250	8.00		101	70-130			
LCS (2332010-BS1)							Prepared: 0	8/07/23 A	nalyzed: 08/07/23
Benzene	4.77	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.3	70-130			
Toluene	4.77	0.0250	5.00		95.5	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.56	0.0230	10.0		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95	0.0230	8.00		99.4	70-130			
Matrix Spike (2332010-MS1)				Source	E308033-(	)1	Prenared: 0	8/07/23 A	nalyzed: 08/07/23
,	4.82	0.0250	5.00			54-133	Treparea. o	0/0//25 11	inary200.00/07/25
Benzene	4.82 4.68	0.0250	5.00 5.00	ND ND	96.4 93.5	54-133 61-133			
Ethylbenzene	4.68 4.84	0.0250 0.0250	5.00	ND ND	93.5 96.8	61-133			
Toluene			5.00	ND	201 2	01-130			
						62 121			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
o-Xylene p,m-Xylene	4.84 9.68	0.0250 0.0500	5.00 10.0	ND ND	96.7 96.8	63-131			
o-Xylene p,m-Xylene Total Xylenes	4.84	0.0250	5.00	ND	96.7				
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID	4.84 9.68 14.5	0.0250 0.0500	5.00 10.0 15.0	ND ND ND	96.7 96.8 96.8 97.7	63-131 63-131 70-130	Prenared 0	8/07/23 ^	nalvzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1)	4.84 9.68 14.5 7.82	0.0250 0.0500 0.0250	5.00 10.0 15.0 8.00	ND ND ND Source:	96.7 96.8 96.8 97.7 <b>E308033-(</b>	63-131 63-131 70-130	-		nalyzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1) Benzene	4.84 9.68 14.5 7.82 4.74	0.0250 0.0500 0.0250 0.0250	5.00 10.0 15.0 8.00 5.00	ND ND ND Source: ND	96.7 96.8 96.8 97.7 <b>E308033-(</b> 94.7	63-131 63-131 70-130 01 54-133	1.75	20	nalyzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1) Benzene Ethylbenzene	4.84 9.68 14.5 7.82 4.74 4.58	0.0250 0.0500 0.0250 0.0250 0.0250	5.00 10.0 15.0 8.00 5.00 5.00	ND ND ND Source: ND ND	96.7 96.8 96.8 97.7 <b>E308033-(</b> 94.7 91.7	63-131 63-131 70-130 01 54-133 61-133	1.75 2.03	20 20	nalyzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1) Benzene Ethylbenzene Toluene	4.84 9.68 14.5 7.82 4.74 4.58 4.75	0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250	5.00 10.0 15.0 8.00 5.00 5.00 5.00	ND ND ND Source: ND ND ND	96.7 96.8 96.8 97.7 <b>E308033-4</b> 94.7 91.7 95.0	63-131 63-131 70-130 <b>)1</b> 54-133 61-133 61-130	1.75 2.03 1.88	20 20 20	nalyzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1) Benzene Ethylbenzene Toluene o-Xylene	4.84 9.68 14.5 7.82 4.74 4.58 4.75 4.74	0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	5.00 10.0 15.0 8.00 5.00 5.00 5.00 5.00 5.00	ND ND ND Source: ND ND ND ND	96.7 96.8 96.8 97.7 <b>E3080333-1</b> 94.7 91.7 95.0 94.8	63-131 63-131 70-130 <b>)1</b> 54-133 61-133 61-130 63-131	1.75 2.03 1.88 2.03	20 20 20 20	nalyzed: 08/08/23
o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID Matrix Spike Dup (2332010-MSD1) Benzene Ethylbenzene Toluene	4.84 9.68 14.5 7.82 4.74 4.58 4.75	0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250	5.00 10.0 15.0 8.00 5.00 5.00 5.00	ND ND ND Source: ND ND ND	96.7 96.8 96.8 97.7 <b>E308033-4</b> 94.7 91.7 95.0	63-131 63-131 70-130 <b>)1</b> 54-133 61-133 61-130	1.75 2.03 1.88	20 20 20	.nalyzed: 08/08/23



## **QC Summary Data**

		QC D	umm	ary Data	u				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 8/10/2023 10:32:24AM
Dallas IX, 75240		Project Manager	· · ·	Asiney Gloveng	,0 				8/10/2025 10:52:24AM
	Noi	nhalogenated (	Organics	<b>by EPA 80</b>	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332010-BLK1)							Prepared: 0	8/07/23 A	analyzed: 08/07/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.80		8.00		85.0	70-130			
LCS (2332010-BS2)							Prepared: 0	8/07/23 A	analyzed: 08/07/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.9	70-130			
Matrix Spike (2332010-MS2)				Source:	E308033-	01	Prepared: 0	8/07/23 A	analyzed: 08/08/23
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.81		8.00		85.2	70-130			
Matrix Spike Dup (2332010-MSD2)				Source:	E308033-(	01	Prepared: 0	8/07/23 A	analyzed: 08/08/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.7	70-130	2.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			



## **QC Summary Data**

		QC DI	umm	ial y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Barry Miller Stat 23052-0001 Ashley Giovengo		201H			<b>Reported:</b> 8/10/2023 10:32:24AM
	Nonh	alogenated Orga	anics b	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2332039-BLK1)							Prepared: 0	8/08/23 A	Analyzed: 08/08/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	49.6		50.0		99.1	50-200			
LCS (2332039-BS1)							Prepared: 0	8/08/23 A	Analyzed: 08/08/23
Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2332039-MS1)				Source: E	308036-	03	Prepared: 0	8/08/23 A	Analyzed: 08/09/23
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.7	50-200			
Matrix Spike Dup (2332039-MSD1)				Source: E	308036-	03	Prepared: 0	8/08/23 A	Analyzed: 08/08/23
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	38-132	0.325	20	
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			



## **QC Summary Data**

			-		-					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Barry Miller Sta 23052-0001 Ashley Gioveng		201H				ported: 10:32:24AM
		Anions	by EPA	300.0/9056A	1				Analys	st: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %		Notes
Blank (2332014-BLK1)							Prepared: 0	8/07/23	Analyzed:	08/07/23
Chloride	ND	20.0								
LCS (2332014-BS1)							Prepared: 0	8/07/23	Analyzed:	08/08/23
Chloride	254	20.0	250		102	90-110				
Matrix Spike (2332014-MS1)				Source:	E308028-(	)1	Prepared: 0	8/07/23	Analyzed:	08/08/23
Chloride	336	20.0	250	ND	135	80-120				M2
Matrix Spike Dup (2332014-MSD1)				Source:	E308028-	01	Prepared: 0	8/07/23	Analyzed:	08/08/23
Chloride	311	20.0	250	ND	125	80-120	7.71	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.



Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/10/23 10:32

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

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

Release

1181

Project Manager: Ashley Giovengo       Address: on file       E30500000000000000000000000000000000000		×	State	
Address:     3122 National Parks Hwy     Analysis and Method       City, State, Zip:     Analysis and Method       Phone:     575-988-0055       Email:     agiovengo@ensolum.com       Report due by:     Image: Sampled       Date Sampled     Matrix       Soil     1 Jar       Sign 2     Soil       9:57     8/3/2023       Soil     1 Jar	X BGDOC NM		State O UT AZ TX	
Address:     3122 National Parks Hwy     Analysis and Method       City, State, Zip:     City, State, Zip:     Analysis and Method       Phone:     575-988-0055     Phone:     (337)319-8398       Email:     agiovengo@ensolum.com     Email:     clinton.talley@matadorresources.com       Time Sampled     Date Sampled     Matrix     No. of Containers     Sample ID       9:58     8/3/2023     Soil     1 Jar     SS07 - 0'     1       9:57     8/3/2023     Soil     1 Jar     BH03 - 0'     2     1	X BGDOC NM		State O UT AZ TX	
Phone: 575-988-0055Email: agiovengo@ensolum.comReport due by:Time SampledMatrixNo. of ContainersSample ID $1 2 5 5 7 - 0'$ $1 2 5 5 7 - 0'$ $1 2 5 5 7 - 0'$ $1 2 5 5 7 - 0'$ $9:57$ $8/3/2023$ Soil $1 Jar$	Repoc Geoc		O UT AZ TX	
9:58       8/3/2023       Soil       1 Jar       SS07 - 0'       I	Repoc Geoc		O UT AZ TX	
9:58       8/3/2023       Soil       1 Jar       SS07 - 0'       I	Repoc Geoc			
9:58       8/3/2023       Soil       1 Jar       SS07 - 0'       1       I	Repoc Geoc	×	Remarks	
9:58       8/3/2023       Soil       1 Jar       SS07 - 0'       I	x x		Remarks	
9:57         8/3/2023         Soil         1 Jar         BH03 - 0'         2         I </td <td>x</td> <td></td> <td></td> <td></td>	x			
Soli I Jar				
9:59 8/3/2023 Soil 1 Jar BH03 - 1' 3 3 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	x			
				- 1
	_			-
				-
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@ensolum.com Please see remarks.				
, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:				
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time	Lab Use C			
Relinguished by: (Signature) Date Time Received by: (Signature)	(Y) N			
Relinguished by: (Signature) Date Time Received by: (Signature) Date Time	2	<u></u>		
MAN Moso 8.4.23 2345 UNIN 8.1.23 7:45 AVG Temp °C_4	F	10.4		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber 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			e analysis of the al	bove
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.				

Received by OCD: 11/18/2023 1:15:35 PM

#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

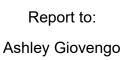
Client:	Matador Resources, LLC. Dat	te Received:	08/07/23	07:45	Work Order ID:	E308036
Phone:	(972) 371-5200 Dat	te Logged In:	08/04/23	16:43	Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (4 day TAT)		
Chain a	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match the	he COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	eumen. <u>eoumer</u>		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
Sample	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
<u>Sample</u>	Cooler					
_	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are recommutes of sampling	eived w/i 15	Yes			
	o visible ice, record the temperature. Actual sample tem	perature: <u>4</u> °	<u>'C</u>			
	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers	colloctod?	Yes Yes			
		confected?	105			
Field La	e field sample labels filled out with the minimum informa	tion				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
(	Collectors name?		No			
_	Preservation					
	s the COC or field labels indicate the samples were preser	ved?	No			
	sample(s) correctly preserved?	2	NA			
	b filteration required and/or requested for dissolved metal	s?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?	_	No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	?	NA			
	tract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so					

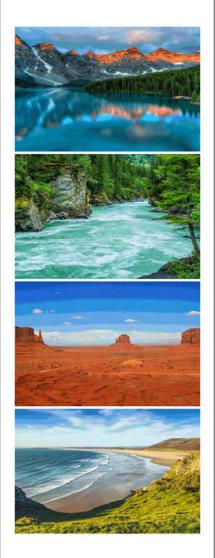
Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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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: Barry Mille

Barry Miller State Com #201H

Work Order: E308239

Job Number: 23052-0001

Received: 9/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 9/6/23

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

Project Name: Barry Miller State Com #201H Workorder: E308239 Date Received: 9/1/2023 5:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2023 5:45:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com



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**Client Sample ID** 

SS07A - 0'

SS07B - 0'

	Sample Sum	mary	
Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	Dan anta da
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/06/23 07:16

Sampled

08/30/23

Received

09/01/23

Container

Glass Jar, 2 oz.

Lab Sample ID Matrix

Soil

E308239-01A

E308239-02A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.



.

Page 76 of 185

Matador Resources, LLC.	Project Name:		y Miller State Co	om #201H		<b>D</b>	
5400 LBJ Freeway, Suite 1500	Project Numb		52-0001		<b>Reported:</b> 9/6/2023 7:16:07A		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo	9/0/2023 /:10:0/AM			
		SS07A - 0'					
		E308239-01					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2335080	
Benzene	ND	0.0250	1	08/31/23	09/02/23		
Ethylbenzene	ND	0.0250	1	08/31/23	09/02/23		
Toluene	ND	0.0250	1	08/31/23	09/02/23		
p-Xylene	ND	0.0250	1	08/31/23	09/02/23		
o,m-Xylene	ND	0.0500	1	08/31/23	09/02/23		
Fotal Xylenes	ND	0.0250	1	08/31/23	09/02/23		
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/31/23	09/02/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2335080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/23	09/02/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	08/31/23	09/02/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2335096	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/01/23	09/01/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/01/23	09/01/23		
Surrogate: n-Nonane		96.8 %	50-200	09/01/23	09/01/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2335093	
Chloride	199	20.0	1	08/31/23	09/01/23		

# Sample Data



# **QC Summary Data**

		<b>V</b> C 2		v					
Matador Resources, LLC.		Project Name:	Ba	arry Miller Sta	ate Com #2	201H			Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	052-0001					-
Dallas TX, 75240		Project Manager:	As	shley Gioveng	go				9/6/2023 7:16:07AM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2335080-BLK1)							Prepared: 0	8/31/23 A	Analyzed: 08/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			
LCS (2335080-BS1)							Prepared: 0	8/31/23 A	Analyzed: 09/01/23
Benzene	5.15	0.0250	5.00		103	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.12	0.0250	5.00		102	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	7.54		8.00		94.3	70-130			
Matrix Spike (2335080-MS1)				Source:	E308238-	06	Prepared: 0	8/31/23 A	Analyzed: 09/01/23
Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
Toluene	5.35	0.0250	5.00	ND	107	61-130			
p-Xylene	5.29	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			
Matrix Spike Dup (2335080-MSD1)				Source:	E308238-	06	Prepared: 0	8/31/23 A	Analyzed: 09/01/23
Benzene	5.03	0.0250	5.00	ND	101	54-133	5.89	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.1	61-133	5.89	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	5.98	20	
p-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	5.82	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	5.89	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	5.87	20	



# **QC Summary Data**

		QU D	umm	ary Data	a				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 9/6/2023 7:16:07AM
	Noi	nhalogenated (	Organics	s by EPA 80	15D - GI	RO			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
					70	70			
Blank (2335080-BLK1)							Prepared: 0	8/31/23 A	analyzed: 08/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			
LCS (2335080-BS2)							Prepared: 0	8/31/23 A	analyzed: 09/01/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			
Matrix Spike (2335080-MS2)				Source:	E308238-	06	Prepared: 0	8/31/23 A	analyzed: 09/01/23
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			
Matrix Spike Dup (2335080-MSD2)				Source:	E308238-	06	Prepared: 0	8/31/23 A	analyzed: 09/01/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	1.28	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			



# **QC Summary Data**

		VC D	umm	laly Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Barry Miller State 23052-0001 Ashley Giovengo		201H			<b>Reported:</b> 9/6/2023 7:16:07AM
	Nonha		Analyst: KM						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2335096-BLK1)							Prepared: 0	9/01/23 A	analyzed: 09/01/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	47.0		50.0		94.1	50-200			
LCS (2335096-BS1)							Prepared: 0	9/01/23 A	analyzed: 09/01/23
Diesel Range Organics (C10-C28)	232	25.0	250		92.6	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			
Matrix Spike (2335096-MS1)				Source: E	308231-	23	Prepared: 0	9/01/23 A	analyzed: 09/01/23
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: n-Nonane	45.3		50.0		90.7	50-200			
Matrix Spike Dup (2335096-MSD1)				Source: E	308231-	23	Prepared: 0	9/01/23 A	analyzed: 09/01/23
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	0.730	20	
Surrogate: n-Nonane	45.9		50.0		91.9	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$	••••••						
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager		Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 9/6/2023 7:16:07AM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2335093-BLK1)							Prepared: 0	8/31/23 A	nalyzed: 09/01/23
Chloride	ND	20.0							
LCS (2335093-BS1)							Prepared: 0	8/31/23 A	nalyzed: 09/01/23
Chloride	242	20.0	250		96.9	90-110			
Matrix Spike (2335093-MS1)				Source:	E308235-2	21	Prepared: 0	8/31/23 A	nalyzed: 09/01/23
Chloride	521	20.0	250	318	81.1	80-120			
Matrix Spike Dup (2335093-MSD1)				Source:	E308235-	21	Prepared: 0	8/31/23 A	nalyzed: 09/01/23
Chloride	566	20.0	250	318	99.1	80-120	8.29	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.



Γ	Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/06/23 07:16

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Reference Project Information

Received by OCD: 11/18/2023 1:15:35 PM

Project:     Barry M       Project Manager       Address:     3122 N       City, State, Zip:     0       Phone:     575-988       Email:     agiovenge       Report due by:     1       Time Sampled     Date Sam       9:35     8/30/20	Ashley Gio ational Park arlsbad NN 2055	ovengo Is Hwy			Attention: Matador Production C	ompany	1		A REAL PROPERTY AND INCOME.	Contract of the second second				and the second second			-			
Address: 3122 N City, State, Zip: 0 Phone: 575-988 Email: agiovenge Report due by: Time Sampled Date Sam	ational Park arlsbad NN 2055	s Hwy		100			Lar	b WO	#	0	Job	Numb	er 2.000	1D	2D	3D	Stan	dard	CWA	SDWA
City, State, Zip: 0 Phone: 575-988 Email: agiovenge Report due by: Time Sampled Date Sam	arlsbad NN 0055			10000	Address: on file		E	300	52:	57	23	052	:000				>	(		
Phone: 575-988 Email: agiovenge Report due by: Time Sampled Date Sam	0055	1, 88220		-	City, State, Zip:			-	-		Analy	sis an	d Metho	d				S. 11		RCRA
Email: agioveng Report due by: Time Sampled Date Sam				-	Phone: (337)319-8398		-	Ad C						1			1		1	
Time Sampled         Date Sam	@ensolum			-	Email: clinton.talley@matadorrese	ources.com	ŋ	/OR(											State	
Time Sampled Date Sam		.com		-				ORO,	121	60	0	0.00		ΣN		1 <sup>4</sup>	N	м со	UT AZ	TX
Sampled Date Sam	T	1				1	-	30/1	y 80	/ 82	601	le 3(						×		
9:35 8/30/2	led Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
	23 Soil	1 Jar			SS07A - 0'	1								x						
9:37 8/30/20	23 Soil	1 Jar			SS07B - 0'	2								x			Do	not run unle	rss SS07A - 0' is a Cl	100 TPH or 60
						1														
	-																			
						No.														
						No.														
Additional Instru	tions: Ple	ase CC: cl	burton@ensol	lum.	com, agiovengo@ensolum.com															
I, (field sampler), attest date or time of collection					ware that tampering with or intentionally mislabe tion. Sampled by:	lling the samp	ole loc	ation,			1-1-20-00		ng thermal p d in ice at an						hey are samp quent days.	ed or
Relinquished by: (Sig	ature)	Date 8 -	30-23 11	:2	4 Received by: (Signature)	Date 8-30-	23	Time	24	5	Rece	ived	on ice:	L	ab Us	e Onl	У	-		
Relinquished by: (Sig	Cours	Date		715	Reseived by: (Signature)	Bate 31	-2:	3 Z	000	2	<u>T1</u>			<u>T2</u>			<u>_ T3</u>			
Relinquished by: (Sig	MUSS	Date		24	15 Carth Mar	9/1/2	23	Time 5	:4				p°C_	4						
Sample Matrix: S - Soil,						Containe														
Note: Samples are di samples is applicable	carded 30 day only to those	s after resu samples rec	Its are reported u eived by the labo	rator	other arrangements are made. Hazardous y with this COC. The liability of the laborator	samples wil y is limited t	be re	eturne e amou	d to cl nt pai	lient o d for c	r dispo on the	osed o report	f at the cl t.	ient e	xpense	. The	report	for the a	nalysis of t	he above

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

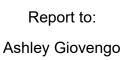
lient:	Matador Resources, LLC. Da	ate Received:	09/01/23 05:	45	Work Order ID: E308239
Phone:	(972) 371-5200 Da	ate Logged In:	08/31/23 14:	41	Logged In By: Caitlin Mars
Email:		ie Date:	09/07/23 17:	00 (3 day TAT)	
Chain o	f Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes		Remarks on COC: Do not run unless
Sample	Cooler				SS07A-0 is >100 TPH or 600 Cl.
	sample cooler received?		Yes		
8. If yes,	, was cooler received in good condition?		Yes		
9. Was th	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample ter	nperature: 4°	С		
	Container	-			
	aqueous VOC samples present?		No		
15. Are '	VOC samples collected in VOA Vials?		NA		
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA		
	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA		
17. Was					
17. Was 18. Are 1	a trip blank (TB) included for VOC analyses?	collected?	NA		
17. Was 18. Are 1	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers	collected?	NA Yes		
<ol> <li>Was</li> <li>Are 1</li> <li>Is the</li> <li>Field La</li> <li>Were</li> </ol>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform		NA Yes Yes		
17. Was 18. Are 1 19. Is the Field La 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID?		NA Yes Yes		
17. Was 18. Are 1 19. Is the Field La 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		NA Yes Yes Yes Yes		
17. Was 18. Are n 19. Is the Field La 20. Were 1 0	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		NA Yes Yes		
17. Was 18. Are a 19. Is the Field La 20. Were Sample	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation:	NA Yes Yes Yes No		
17. Was 18. Are a 19. Is the Field La 20. Were 3 0 0 5 5 6 6 7 7 1. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?	ation:	NA Yes Yes Yes Yes		
17. Was 18. Are 1 19. Is the <b>Field La</b> 20. Were 20. Were 21. Does 22. Are 2	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	ation: erved?	NA Yes Yes Yes No No		
17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 2 24. Is lat	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ation: erved?	NA Yes Yes Yes No No NA		
17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 2 24. Is lat Multiph	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b>	ation: erved? ıls?	NA Yes Yes Yes No No NA No		
17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 2 24. Is lat Multiph 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ation: erved? ils?	NA Yes Yes Yes No No NA		
17. Was 18. Are 1 19. Is the <b>Field La</b> 20. Were 21. Does 22. Are 2 24. Is lal <b>Multiph</b> 26. Does 27. If ye	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase?	ation: erved? ils?	NA Yes Yes Yes No No No No		
17. Was 18. Are 1 19. Is the Field La 20. Were 20. Were 21. Does 22. Are 2 24. Is lat Multiph 26. Does 27. If ye	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers <b>abel</b> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	ation: erved? ils? d?	NA Yes Yes Yes No No No No		



envirotech Inc.

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

Date





5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name:

Barry Miller State Com #201H

Work Order: E310300

Job Number: 23052-0001

Received: 10/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 11/6/23

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

Project Name: Barry Miller State Com #201H Workorder: E310300 Date Received: 10/31/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/31/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

Michelle Golzales Client Representative 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 Summarv

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		Sampic Sum	mai y		
Matador Resources, LLC.		Project Name:	Barry Miller State	Com #201H	Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23052-0001		Reported.
Dallas TX, 75240		Project Manager:	Ashley Giovengo		11/06/23 14:26
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
W01 - 0.5'	E310300-01A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
W02 - 0.5'	E310300-02A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
502 - 01'	E310300-03A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
507 - 1'	E310300-04A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
508 - 1'	E310300-05A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
509 - 1'	E310300-06A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
510 - 1'	E310300-07A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
511 - 1'	E310300-08A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
514 - 1'	E310300-09A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
515 - 1'	E310300-10A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.



		ampie D				
Matador Resources, LLC.	Project Name	Barr	y Miller State C	Com #201H		
5400 LBJ Freeway, Suite 1500	Project Numb	er: 2305	52-0001			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ey Giovengo			11/6/2023 2:26:04PM
		SW01 - 0.5'				
		E310300-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
latile Organic Compounds by EPA 8260B mg/kg mg/kg Analyst: RKS					Batch: 2344030	
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
p-Xylene	ND	0.0250	1	10/31/23	11/02/23	
o,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
Surrogate: n-Nonane		90.2 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	

# Sample Data



## **Sample Data**

	Da	imple D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage	r: 230	y Miller Stat 52-0001 ley Giovengo	te Com #201H		<b>Reported:</b> 11/6/2023 2:26:04PM
2 4140 11, 702 10			leg storeng			
		W02 - 0.5'				
	<u> </u>	E310300-02				
	D k	Reporting		· D I		NT /
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
p-Xylene	ND	0.0250	1	10/31/23	11/02/23	
o,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
Surrogate: n-Nonane		92.6 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



## **Sample Data**

	L.	bample D	aca			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Nam Project Num Project Mana	ber: 2305	y Miller Stat 52-0001 ey Giovengo	e Com #201H		<b>Reported:</b> 11/6/2023 2:26:04PM
		FS02 - 01'				
		E310300-03				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
p-Xylene	ND	0.0250	1	10/31/23	11/02/23	
o,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
Surrogate: n-Nonane		93.4 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



## **Sample Data**

	D	ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2305	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 11/6/2023 2:26:04PM
	110,000 111010	-		-80			
		FS07 - 1' E310300-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	mg/kg Analyst: RKS			Batch: 2344030	
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
p-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		116 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		116 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0		1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/02/23	11/03/23	
Surrogate: n-Nonane		89.6 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2344100
Chloride	ND	400		20	11/03/23	11/04/23	



# Sample Data

		ampic D				
Matador Resources, LLC.	Project Nam			te Com #201H		
5400 LBJ Freeway, Suite 1500	Project Num		52-0001			Reported:
Dallas TX, 75240	Project Mana	ager: Ash	ley Giovengo	)		11/6/2023 2:26:04PM
		FS08 - 1'				
		E310300-05				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
-Xylene	ND	0.0250	1	10/31/23	11/02/23	
,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/31/23	11/02/23	
urrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	10/31/23	11/02/23	
urrogate: Toluene-d8		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
urrogate: Bromofluorobenzene		114 %	70-130	10/31/23	11/02/23	
urrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	10/31/23	11/02/23	
urrogate: Toluene-d8		110 %	70-130	10/31/23	11/02/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
urrogate: n-Nonane		82.0 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



## **Sample Data**

		ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	y Miller Si 52-0001 ley Gioven		n #201H		<b>Reported:</b> 11/6/2023 2:26:04PM
		FS09 - 1'					
		E310300-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2344030	
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
p-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		116 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		116 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0		1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/02/23	11/03/23	
Surrogate: n-Nonane		92.7 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2344100
Chloride	ND	400		20	11/03/23	11/04/23	



## **Sample Data**

	D	ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb	ber: 2305	y Miller S 52-0001		n #201H		Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giover	ngo			11/6/2023 2:26:04PM
		FS10 - 1'					
		E310300-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2344030	
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
-Xylene	ND	0.0250		1	10/31/23	11/02/23	
,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		115 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		115 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		10/31/23	11/02/23	
urrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0		1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/02/23	11/03/23	
Surrogate: n-Nonane		97.6 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2344100
Chloride	ND	400		20	11/03/23	11/04/23	



# Sample Data

	D	ample D	uu				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 11/6/2023 2:26:04PM
		FS11 - 1'					
		E310300-08					
Analyte	Result	Reporting Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344030
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Foluene	ND	0.0250		1	10/31/23	11/02/23	
o-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Fotal Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		113 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		113 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0		1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/02/23	11/03/23	
Surrogate: n-Nonane		87.7 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2344100
Chloride	ND	400		20	11/03/23	11/04/23	



## **Sample Data**

		ample D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	y Miller Sta 52-0001 ley Gioveng		¥201H		<b>Reported:</b> 11/6/2023 2:26:04PM
		FS14 - 1'					
		E310300-09					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2344030	
Benzene	ND	0.0250	1	l	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	l	10/31/23	11/02/23	
oluene	ND	0.0250	1	l	10/31/23	11/02/23	
-Xylene	ND	0.0250	1	l	10/31/23	11/02/23	
,m-Xylene	ND	0.0500	1	l	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	l	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		114 %	70-130		10/31/23	11/02/23	
urrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		10/31/23	11/02/23	
urrogate: Toluene-d8		108 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	KS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		114 %	70-130		10/31/23	11/02/23	
'urrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		10/31/23	11/02/23	
urrogate: Toluene-d8		108 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	M		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	l	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	l	11/02/23	11/03/23	
urrogate: n-Nonane		88.3 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	A		Batch: 2344100
Chloride	ND	400	2	0	11/03/23	11/04/23	



## **Sample Data**

		ample D					
Matador Resources, LLC.	Project Name		y Miller S	tate Con	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numb		52-0001		Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giover	ngo			11/6/2023 2:26:04PM
		FS15 - 1'					
		E310300-10					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2344030
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
p-Xylene	ND	0.0250		1	10/31/23	11/02/23	
o,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Fotal Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		118 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		110 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344070	
Diesel Range Organics (C10-C28)	ND	25.0		1	11/02/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/02/23	11/03/23	
Surrogate: n-Nonane		83.8 %	50-200		11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2344100
Chloride	ND	400		20	11/03/23	11/04/23	



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	urry Miller State 052-0001	e Com #2	201H			Reported:
Dallas TX, 75240		Project Manager:	As	shley Giovengo					11/6/2023 2:26:04PM
			Analyst: RKS						
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 10	0/31/23 A	nalyzed: 11/02/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS1)							Prepared: 10	0/31/23 A	nalyzed: 11/02/23
Benzene	2.70	0.0250	2.50		108	70-130	-		
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Foluene	2.61	0.0250	2.50		105	70-130			
p-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Fotal Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.573	010200	0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2344030-MS1)				Source: E	310292-	01	Prenared: 10	0/31/23 A	nalyzed: 11/02/23
,	2.77	0.0250	2.50	ND	111	48-131	Tieparea. It	0/01/20 11	indiy200. 11/02/23
Benzene	2.77	0.0250	2.50	ND	110	45-131			
Ethylbenzene	2.73	0.0250	2.50	ND	108	43-133			
Foluene	2.69	0.0250	2.50	ND	108	48-130			
-Xylene	2.68 5.36	0.0250	2.30 5.00	ND	107	43-135			
o,m-Xylene Fotal Xylenes	5.36 8.04	0.0500 0.0250	5.00 7.50	ND	107	43-135			
•		0.0250	0.500	nD	119	70-130			
Surrogate: Bromofluorobenzene	0.595								
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD1)				Source: E			Prepared: 10	0/31/23 A	nalyzed: 11/02/23
Benzene	2.68	0.0250	2.50	ND	107	48-131	3.04	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	2.56	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	1.74	24	
p-Xylene	2.61	0.0250	2.50	ND	104	43-135	2.59	27	
o,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	2.51	27	
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135	2.54	27	
	0.500		0.500		118	70-130			
Surrogate: Bromofluorobenzene	0.589		0.500		110	/0 100			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.589 0.481		0.500		96.1	70-130			



# **QC Summary Data**

		QC D	u I I I I I I	ary Date	u .				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	Barry Miller State Com #201H 23052-0001 Ashley Giovengo					<b>Reported:</b> 11/6/2023 2:26:04PM
	No	onhalogenated O	rganics	s by EPA 801	15D - GR	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	:
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source:	E310292-0	1	Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source:	E310292-0	1	Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

# **QC Summary Data**

		QU D	umm	ary Dau	4				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001		Reported:			
Dallas TX, 75240		Project Manager:		Ashley Gioveng	0				11/6/2023 2:26:04PM
	Nonha	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344070-BLK1)							Prepared: 1	1/02/23 A	nalyzed: 11/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			
LCS (2344070-BS1)							Prepared: 1	1/02/23 A	nalyzed: 11/02/23
Diesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			
Matrix Spike (2344070-MS1)				Source:	08	Prepared: 11/02/23 Analyzed: 11/02/23			
Diesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			
Matrix Spike Dup (2344070-MSD1)				Source:	E310300-	08	Prepared: 1	1/02/23 A	nalyzed: 11/02/23
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.6	38-132	2.55	20	
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			



# **QC Summary Data**

		<b>L</b>		J –					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:		Barry Miller Sta 23052-0001		Reported:				
Dallas TX, 75240		Project Manager:		Ashley Gioveng	go				11/6/2023 2:26:04PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344100-BLK1)							Prepared: 1	11/03/23 A	nalyzed: 11/04/23
Chloride	ND	20.0							
LCS (2344100-BS1)							Prepared: 1	1/03/23 A	analyzed: 11/04/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2344100-MS1)				Source:	E310300-(	)3	Prepared: 1	11/03/23 A	nalyzed: 11/04/23
Chloride	531	400	250	ND	213	80-120			M5
Matrix Spike Dup (2344100-MSD1)				Source:	E310300-(	)3	Prepared: 1	11/03/23 A	analyzed: 11/04/23
Chloride	535	400	250	ND	214	80-120	0.754	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.



Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/06/23 14:26

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.



envirotech Inc.

Released to Imaging: 3/15/2024 9:11:17 AM

Refeased

Sun Snu

## Chain of Custody

Page of Received by OCD: 11/18/2023 1:15:35 PM

Page 104 of 185

	Matador Prod				Bill To		1	_	ab U	se Or				EPA P	rogram		
	: Barry Miller S				Attention: Matador Produc	tion Company	Lab WO				Number		) 2D	3D	Standard	rd CWA SDWA	
	Manager: Ash				Address: on file					052-000				x			
Addres	s: 3122 Nation	al Parks	Hwy		City, State, Zip:					Analy	sis and Meth	boi				1	RCRA
City, St	ate, Zip: Carlsb	ad NM,	38220	-	Phone: (337)319-8398		by										
Phone:	575-988-0055				Email: clinton.talley@mata	dorresources.com	ORO									State	
Email:	agiovengo@en	solum.co	om				RO/	1	0		0.0	A MA		×	NM CC	UT AZ	TX
Report	due by:						0/0	802	by 8260	6010	e 30		C 34	TX	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by	Metals 6010	Chloride 300.0	00000		GDOC		Remarks	
11:06	10/27/2023	Soil	1 Jar		SW01 - 0.5'	1						)	(			1	
12:56	10/27/2023	Soil	1 Jar		SW02 - 0.5'							,	(				
13:55	10/27/2023	Soil	1 Jar		FS02 - 1'							,	(				
13:44	10/27/2023	Soil	1 Jar		FS07 - 1'							,	(				
13:43	10/27/2023	Soil	1 Jar	1	FS08 - 1'	5						,	(				
13:42	10/27/2023	Soil	1 Jar		Fs09 - 1'	(9						,	(				
13:38	10/27/2023	Soil	1 Jar		FS10 - 1'	7						,	(				
13:28	10/27/2023	Soil	1 Jar		FS11 - 1'	8						,	(				
13:30	10/27/2023	Soil	1 Jar		FS14 - 1'	a						)	(				
13:26	10/27/2023	Soil	1 Jar		Fs15 - 1'	10						,	(				
Additio	nal Instruction	s: Pleas	se CC: cbi	urton@ensolum	.com, agiovengo@ensolum.cor	n, chamilton@en	solum.co	om, e	ehaft	@en	solum.com						
				of this sample. I am be grounds for legal a	aware that tampering with or intentionally interview of the second secon	mislabelling the sample	location,			10000					ceived on ice the day less than 6 °C on sub		oled or
d	hed by: (Signature	-		/ /	20 Mille Ley	L Date 10-30-2		720	>	Rece	eived on ice:	(	Y I	lse On N	hly		
Mic	hed by: (Signature	L		30-23 16		2 Date 10/30		:5	0	<u>T1</u>		<u>T2</u>		_	<u>T3</u>		
Relinquis	hed by: (Signature	)	lO	30/33 22.	30 Received by: (Signature)	Date 10 3		10			Temp °C_L						
Sample M	atrix: <b>S</b> - Soil, <b>Sd</b> - Sol	id, Sg - Slud	ge, A - Aque	ous, O - Other		Container	Type: g -	glass	, p - p	ooly/p	lastic, <mark>ag</mark> - an	nber	glass,	v - VOA	A		
				the second second states of the	is other arrangements are made. Haza ry with this COC. The liability of the lab					10 M 10 M 10		ient e	xpense	e. The	report for the a	nalysis of th	e above

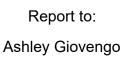
### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	10/31/23	08:15	Work Order ID:	E310300
Phone:	(972) 371-5200 Da	te Logged In:	10/31/23	08.33	Logged In By:	Lacey Rodgers
Email:		e Date:		17:00 (4 day TAT)	<u>88</u>	
Chain o	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comment	ts/Resolution
Sample '	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes			
12 Ifma	minutes of sampling		c			
	visible ice, record the temperature. Actual sample ten	iperature: <u>4</u>	<u>c</u>			
	<u>Container</u>		N			
	aqueous VOC samples present? VOC samples collected in VOA Vials?		No NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La		concetted.	105			
	e field sample labels filled out with the minimum information	ation:				
	Sample ID?		Yes			
I	Date/Time Collected?		Yes			
	Collectors name?		No			
-	Preservation	10	<b>.</b> -			
	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?	1-9	NA			
	b filteration required and/or requested for dissolved meta	15?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	1?	NA			
<u>Subcont</u>	ract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
20 Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		









5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name:

Barry Miller State Com #201H

Work Order: E310306

Job Number: 23052-0001

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 11/7/23

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

Project Name: Barry Miller State Com #201H Workorder: E310306 Date Received: 11/1/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

Michelle Golzales Client Representative 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 Summarv

		Sample Sum	mary		
Matador Resources, LLC.		Project Name:	Barry Miller State C	Com #201H	Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23052-0001		-
Dallas TX, 75240		Project Manager:	Ashley Giovengo		11/07/23 15:12
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
801 - 1.5'	E310306-01A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S03 - 1.5'	E310306-02A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S04 - 1.5'	E310306-03A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
805 - 1.5'	E310306-04A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
806 - 1.5'	E310306-05A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S12 - 1'	E310306-06A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S13 - 1'	E310306-07A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
W03 - 0.5'	E310306-08A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
W04 - 0.5'	E310306-09A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S20 - 1'	E310306-10A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S21 - 1'	E310306-11A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
W08 - 0.5'	E310306-12A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S16 - 1'	E310306-13A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S17 - 1'	E310306-14A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S18 - 1'	E310306-15A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S19 - 1'	E310306-16A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S24 - 1'	E310306-17A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
825 - 1.5'	E310306-18A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S26 - 1'	E310306-19A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
827 - 1'	E310306-20A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
S28 - 1'	E310306-21A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
529 - 1'	E310306-22A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
530 - 1'	E310306-23A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
531 - 1'	E310306-24A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
522 - 1'	E310306-25A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
823 - 2.5'	E310306-26A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.



	5		ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numł Project Mana	ber: 230	ry Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS01 - 1.5'				
		E310306-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		84.3 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

# Sample Data



## Sample Data

	ampic D	uta			
5			n #201H		Reported:
5				11/7/2023 3:12:43PM	
	FS03 - 1.5'				
	E310306-02				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
ND	0.0250	1	11/01/23	11/03/23	
ND	0.0250	1	11/01/23	11/03/23	
ND	0.0250	1	11/01/23	11/03/23	
ND	0.0250	1	11/01/23	11/03/23	
ND	0.0500	1	11/01/23	11/03/23	
ND	0.0250	1	11/01/23	11/03/23	
	94.2 %	70-130	11/01/23	11/03/23	
mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
ND	20.0	1	11/01/23	11/03/23	
	95.7 %	70-130	11/01/23	11/03/23	
mg/kg	mg/kg	Analyst: KM			Batch: 2344086
ND	25.0	1	11/03/23	11/03/23	
ND	50.0	1	11/03/23	11/03/23	
	90.5 %	50-200	11/03/23	11/03/23	
mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
ND			11/04/23	11/06/23	
	Project Name: Project Numb Project Manag Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         Barr           Project Number:         2302           Project Manager:         Ashi           Project Manager:         Ashi           FS03 - 1.5'         E310306-02           FS03 - 1.5'         E310306-02           Result         Limit           mg/kg         mg/kg           MD         0.0250           ND         20.0           95.7 %         mg/kg           Mg/kg         mg/kg           ND         25.0           ND         50.0	Project Number: $23052-0001$ Project Manager: $Ashley Giovengo$ FS03 - 1.5'       E310306-02         E310306-02       Imit       Dilution         Result       Limit       Dilution         mg/kg       mg/kg       Analyst         ND       0.0250       1         ND       20.0       1         MD       20.0       1         MD       25.7 %       70-130         mg/kg       mg/kg       Malyst         ND       25.0       1         ND       50.0       1         MD       50.0       1	Image:       Barry Miller State Com #201H         Project Number:       23052-0001         Project Manager:       Ashley Giovengo         FS03 - 1.5'       Same         Result       Limit       Dilution       Prepared         MD       0.0250       1       11/01/23         ND       0.0250       1       11/01/23         ND       0.0500       1       11/01/23         MD       20.0       1       11/01/23         MD       20.0       1       11/01/23         MD       20.0       1       11/01/23         MD       20.0       1       11/01/23         MD       20.	Image: Barry Miller State Com #201H         Project Namee: 23052-0001       23052-0001         Project Manager: Ashley Giovengo       Ashley Giovengo         FS03 - 1.5'         E310306-02         FS03 - 1.5'         E310306-02         Result       Dilution       Prepared       Analyzed         Meporting       mg/kg       Analyzed       Analyzed         MD       0.0250       1       11/01/23       11/03/23         ND       20.0       1       11/01/23       11/03/23         MD       20.0       1



### Sample Data

	D	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS04 - 1.5'				
		E310306-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
urrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
'urrogate: n-Nonane		85.4 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

### Sample Data

	5	ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS05 - 1.5'				
		E310306-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
oluene	ND	0.0250	1	11/01/23	11/03/23	
-Xylene	ND	0.0250	1	11/01/23	11/03/23	
,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
urrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	kg Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
urrogate: n-Nonane		84.0 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200				

### Sample Data

	5	ample D	ala			
5400 LBJ Freeway, Suite 1500	Project Name Project Numb Project Mana	ber: 230	ry Miller State Co 52-0001 ley Giovengo	m #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS06 - 1.5'				
		E310306-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Fotal Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		80.1 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	b	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Co 52-0001 ley Giovengo	m #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS12 - 1'				
		E310306-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
thylbenzene	ND	0.0250	1	11/01/23	11/03/23	
oluene	ND	0.0250	1	11/01/23	11/03/23	
-Xylene	ND	0.0250	1	11/01/23	11/03/23	
,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
otal Xylenes	ND	0.0250	1	11/01/23	11/03/23	
urrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	11/01/23	11/03/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
urrogate: n-Nonane		82.7 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

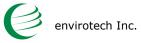
# Sample Data

	N N					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS13 - 1'				
		E310306-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Fotal Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		86.3 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	5	ampic D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	ry Miller State Con 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		SW03 - 0.5'				
		E310306-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		81.1 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 2303	y Miller State Con 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
	\$	SW04 - 0.5'				
		E310306-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	rg Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		86.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



# Sample Data

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Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS20 - 1'				
		E310306-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Fotal Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		89.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		<b>Reported:</b> 11/7/2023 3:12:43PM				
		FS21 - 1'				
		E310306-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		84.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	50	imple D	ลเล			
Matador Resources, LLC.	Project Name:	Barı	y Miller State Co	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 230	52-0001			Reported:
Dallas TX, 75240	Project Manage	er: Ash	ley Giovengo			11/7/2023 3:12:43PM
	5	SW08 - 0.5'				
	]	E310306-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: RKS		
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		83.6 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



### Sample Data

	0	ample D	ala			
Matador Resources, LLC.	Project Name	: Barı	y Miller State Co	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numb	er: 230	52-0001		Reported:	
Dallas TX, 75240		11/7/2023 3:12:43PM				
		FS16 - 1'				
		E310306-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		95.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2344117
Chloride	207	200	10	11/04/23	11/06/23	



### Sample Data

	L.	bample D	aia			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		<b>Reported:</b> 11/7/2023 3:12:43PM				
		E310306-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Fotal Xylenes	ND	0.0250	1	11/01/23	11/03/23	
urrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Gurrogate: n-Nonane		80.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



# Sample Data

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Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo		<b>Reported:</b> 11/7/2023 3:12:43PM	
		FS18 - 1'				
		E310306-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
urrogate: n-Nonane		86.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



# Sample Data

	~	ampic D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo		<b>Reported:</b> 11/7/2023 3:12:43PM	
		FS19 - 1'				
		E310306-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		82.1 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



# Sample Data

		ampie D	uu			
Matador Resources, LLC.	Project Name:		y Miller State Cor	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numbe		52-0001			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			11/7/2023 3:12:43PM
		FS24 - 1'				
		E310306-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	Analyst: RKS		
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		85.9 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



## Sample Data

	<b>D</b>	ampic D	ata			
Matador Resources, LLC.	Project Name		y Miller State Cor	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numb		52-0001		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			11/7/2023 3:12:43PM
		E310306-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Foluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2344086	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		81.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



## Sample Data

	~	ampic D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2303	ry Miller State Cor 52-0001 ley Giovengo		<b>Reported:</b> 11/7/2023 3:12:43PM	
		FS26 - 1'				
		E310306-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		86.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/07/23	



## Sample Data

	D D	ampic D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name:Barry Miller State Com #201HProject Number:23052-0001Project Manager:Ashley Giovengo					<b>Reported:</b> 11/7/2023 3:12:43PM
		FS27 - 1'				
		E310306-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
p-Xylene	ND	0.0250	1	11/01/23	11/03/23	
o,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		83.4 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/07/23	



## Sample Data

		mpic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 230	y Miller Sta 52-0001 ley Gioveng		<b>Reported:</b> 11/7/2023 3:12:43PM		
		FS28 - 1'					
	]	E310306-21					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2344042
Benzene	ND	0.0250	1		11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1		11/01/23	11/02/23	
Toluene	ND	0.0250	1		11/01/23	11/02/23	
p-Xylene	ND	0.0250	1		11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1		11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1		11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.5 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344042	
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.5 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344092	
Diesel Range Organics (C10-C28)	ND	25.0	1		11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1		11/03/23	11/04/23	
Surrogate: n-Nonane		85.9 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I	BA		Batch: 2344118
Chloride	ND	200	10	0	11/04/23	11/06/23	



## Sample Data

	~•	impic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	y Miller S 52-0001 ley Giover		n #201H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS29 - 1'					
		E310306-22					
	D k	Reporting	D				
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344042
Benzene	ND	0.0250		1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250		1	11/01/23	11/02/23	
Toluene	ND	0.0250		1	11/01/23	11/02/23	
p-Xylene	ND	0.0250		1	11/01/23	11/02/23	
o,m-Xylene	ND	0.0500		1	11/01/23	11/02/23	
Fotal Xylenes	ND	0.0250		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0		1	11/03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0		1	11/03/23	11/04/23	
Surrogate: n-Nonane		88.3 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2344118
Chloride	477	200		10	11/04/23	11/06/23	



# Sample Data

	~	ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	y Miller S 52-0001 ley Giover		<b>Reported:</b> 11/7/2023 3:12:43PM		
		FS30 - 1'					
		E310306-23					
Analyte	Result	Reporting Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344042
Benzene	ND	0.0250		1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250		1	11/01/23	11/02/23	
Toluene	ND	0.0250		1	11/01/23	11/02/23	
p-Xylene	ND	0.0250		1	11/01/23	11/02/23	
o,m-Xylene	ND	0.0500		1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0		1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/03/23	11/04/23	
Surrogate: n-Nonane		91.8 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2344118
Chloride	316	200		10	11/04/23	11/06/23	



## Sample Data

		imple D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	r: 2305	y Miller Sta 52-0001 ley Gioveng	te Com #2011	H		<b>Reported:</b> 11/7/2023 3:12:43PM
		FS31 - 1'					
	]	E310306-24					
		Reporting	Dil	·			
Analyte	Result	Limit	Dilut	tion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RKS			Batch: 2344042
Benzene	ND	0.0250	1	11/	01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/	01/23	11/02/23	
Toluene	ND	0.0250	1	11/	01/23	11/02/23	
p-Xylene	ND	0.0250	1	11/	01/23	11/02/23	
o,m-Xylene	ND	0.0500	1	11/	01/23	11/02/23	
Fotal Xylenes	ND	0.0250	1	11/	01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/	01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/	01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/	01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS			Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/	01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/	01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/	01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/	01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: KM			Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/	03/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/	03/23	11/04/23	
Surrogate: n-Nonane		82.4 %	50-200	11/	)3/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: BA			Batch: 2344118
Chloride	466	200	10	) 11/	04/23	11/06/23	



### Sample Data

Sample Data											
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		y Miller Sta 52-0001		Reported:						
Dallas TX, 75240	Project Mana	ger: Ash	ley Gioveng	11/7/2023 3:12:43PM							
		FS22 - 1'									
		E310306-25									
		Reporting									
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes				
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344042				
Benzene	ND	0.0250	1	1	11/01/23	11/02/23					
Ethylbenzene	ND	0.0250	1	1	11/01/23	11/02/23					
Toluene	ND	0.0250	1	1	11/01/23	11/02/23					
o-Xylene	ND	0.0250	1	1	11/01/23	11/02/23					
o,m-Xylene	ND	0.0500	1	1	11/01/23	11/02/23					
Fotal Xylenes	ND	0.0250	1	1	11/01/23	11/02/23					
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23					
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		11/01/23	11/02/23					
Surrogate: Toluene-d8		99.7 %	70-130		11/01/23	11/02/23					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344042				
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/01/23	11/02/23					
Surrogate: Bromofluorobenzene		105 %	70-130		11/01/23	11/02/23					
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		11/01/23	11/02/23					
Surrogate: Toluene-d8		99.7 %	70-130		11/01/23	11/02/23					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2344092				
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/03/23	11/04/23					
Dil Range Organics (C28-C36)	ND	50.0	1	1	11/03/23	11/04/23					
Surrogate: n-Nonane		86.3 %	50-200		11/03/23	11/04/23					
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2344118				
Chloride	ND	200	1	0	11/04/23	11/06/23					



## Sample Data

	2	ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	er: 230	y Miller Sta 52-0001 ley Gioveng	<b>Reported:</b> 11/7/2023 3:12:43PM			
		FS23 - 2.5'					
		E310306-26					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2344042
Benzene	ND	0.0250	1	l	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	l	11/01/23	11/02/23	
Toluene	ND	0.0250	1	l	11/01/23	11/02/23	
p-Xylene	ND	0.0250	1	l	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	l	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	l	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.7 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.7 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	11/03/23	11/04/23	
Surrogate: n-Nonane		86.6 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2344118
Chloride	593	200	1	0	11/04/23	11/06/23	



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	rry Miller Stat 052-0001		201H			<b>Reported:</b>	
Dallas TX, 75240		Project Manager:	As	hley Giovengo	0			1	11///2023 3:12:43PM	
		Volatile Organic	Compou	unds by EP.	A 82601	3	Analyst: RKS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2344042-BLK1)							Prepared: 1	1/01/23 An	alyzed: 11/02/23	
Benzene	ND	0.0250					1		5	
Ethylbenzene	ND	0.0250								
Foluene	ND	0.0250								
p-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Fotal Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		102	70-130				
Surrogate: Toluene-d8	0.308		0.500		99.6	70-130				
LCS (2344042-BS1)							Prenared 1	1/01/23 An	alyzed: 11/02/23	
, ,	2.42		0.50		07.4	50.100	Tiepareu. T	1/01/23 All	alyzed. 11/02/23	
Benzene	2.43	0.0250	2.50		97.4	70-130				
Ethylbenzene	2.42	0.0250	2.50		96.8	70-130				
Toluene	2.35	0.0250	2.50		94.0	70-130				
p-Xylene	2.38	0.0250	2.50		95.4	70-130				
o,m-Xylene	4.68	0.0500	5.00		93.7	70-130				
Total Xylenes	7.07	0.0250	7.50		94.2	70-130				
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130				
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130				
Matrix Spike (2344042-MS1)				Source: I	E <b>310305</b> -:	23	Prepared: 1	1/01/23 An	alyzed: 11/02/23	
Benzene	2.40	0.0250	2.50	ND	96.1	48-131				
Ethylbenzene	2.39	0.0250	2.50	ND	95.7	45-135				
Toluene	2.31	0.0250	2.50	ND	92.3	48-130				
o-Xylene	2.36	0.0250	2.50	ND	94.3	43-135				
o,m-Xylene	4.60	0.0500	5.00	ND	91.9	43-135				
Fotal Xylenes	6.95	0.0250	7.50	ND	92.7	43-135				
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130				
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130				
Matrix Spike Dup (2344042-MSD1)				Source: I	E <b>310305</b> -:	23	Prepared: 1	1/01/23 An	alyzed: 11/02/23	
Benzene	2.42	0.0250	2.50	ND	96.7	48-131	0.685	23		
Ethylbenzene	2.41	0.0250	2.50	ND	96.4	45-135	0.771	27		
	2.33	0.0250	2.50	ND	93.1	48-130	0.885	24		
Foluene	2.38	0.0250	2.50	ND	95.4	43-135	1.18	27		
Toluene p-Xylene	2.50				00.5	43-135	1.76	27		
	4.68	0.0500	5.00	ND	93.5	45-155	1.70	27		
p-Xylene		0.0500 0.0250	5.00 7.50	ND ND	93.5 94.2	43-135	1.56	27		
p-Xylene p,m-Xylene	4.68									
>-Xylene o,m-Xylene Fotal Xylenes	4.68 7.06		7.50		94.2	43-135				



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	nrry Miller Sta 052-0001		201H			<b>Reported:</b> 11/7/2023 3:12:43PM		
Dallas IA, 75240		, 0		shley Gioveng					11///2025 5:12:45PM		
	Volatile Organics by EPA 8021B								Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2344046-BLK1)							Prepared: 1	1/01/23 A	analyzed: 11/03/23		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
p-Xylene	ND	0.0250									
o,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130					
LCS (2344046-BS1)							Prepared: 1	1/01/23 A	analyzed: 11/03/23		
Benzene	5.08	0.0250	5.00		102	70-130					
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130					
Toluene	5.04	0.0250	5.00		101	70-130					
p-Xylene	4.98	0.0250	5.00		99.6	70-130					
o,m-Xylene	10.1	0.0500	10.0		101	70-130					
Total Xylenes	15.1	0.0250	15.0		101	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130					
Matrix Spike (2344046-MS1)				Source:	E310306-	02	Prepared: 1	1/01/23 A	analyzed: 11/03/23		
Benzene	5.15	0.0250	5.00	ND	103	54-133					
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133					
Toluene	5.10	0.0250	5.00	ND	102	61-130					
p-Xylene	5.04	0.0250	5.00	ND	101	63-131					
o,m-Xylene	10.3	0.0500	10.0	ND	103	63-131					
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131					
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130					
Matrix Spike Dup (2344046-MSD1)				Source:	E310306-	02	Prepared: 1	1/01/23 A	analyzed: 11/03/23		
Benzene	5.24	0.0250	5.00	ND	105	54-133	1.75	20			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	1.90	20			
Toluene	5.20	0.0250	5.00	ND	104	61-130	1.96	20			
p-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.10	20			
o,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	1.82	20			
· · ·											
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.91	20			



## **QC Summary Data**

				ary Date							
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:		Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 11/7/2023 3:12:43PM		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2344042-BLK1)							Prepared: 1	1/01/23	Analyzed: 11/02/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130					
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130					
LCS (2344042-BS2)							Prepared: 1	1/01/23	Analyzed: 11/02/23		
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130					
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130					
Surrogate: Toluene-d8	0.503		0.500		101	70-130					
Matrix Spike (2344042-MS2)				Source:	E310305-	23	Prepared: 1	1/01/23	Analyzed: 11/02/23		
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130					
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130					
Surrogate: Toluene-d8	0.574		0.500		115	70-130					
Matrix Spike Dup (2344042-MSD2)				Source:	E310305-	23	Prepared: 1	1/01/23	Analyzed: 11/02/23		
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130					
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130					



## **QC Summary Data**

		YC N	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ary Date	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001	te Com #2	201H	Reported		
Dallas TX, 75240		Project Manager:	1	Ashley Gioveng	0				11/7/2023 3:12:43PM
	Noi		Analyst: RKS						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344046-BLK1)							Prepared: 1	1/01/23 A	nalyzed: 11/03/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
LCS (2344046-BS2)							Prepared: 1	1/01/23 A	analyzed: 11/03/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			
Matrix Spike (2344046-MS2)				Source: 1	E310306-	02	Prepared: 1	1/01/23 A	analyzed: 11/03/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			
Matrix Spike Dup (2344046-MSD2)				Source:	E310306-	02	Prepared: 1	1/01/23 A	analyzed: 11/03/23
Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{S}$		ary Date							
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001	ate Com #2	201H			Reported:		
Dallas TX, 75240		Project Manager:		Ashley Gioveng	<u>go</u>				11/7/2023 3:12:43PM		
	Nonh		Analyst: KM								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2344086-BLK1)							Prepared: 1	1/03/23 A	nalyzed: 11/03/23		
Diesel Range Organics (C10-C28)	ND	25.0									
Oil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	41.1		50.0		82.3	50-200					
LCS (2344086-BS1)							Prepared: 1	1/03/23 A	nalyzed: 11/03/23		
Diesel Range Organics (C10-C28)	225	25.0	250		90.1	38-132					
Surrogate: n-Nonane	43.8		50.0		87.6	50-200					
Matrix Spike (2344086-MS1)				Source:	E310306-	06	Prepared: 1	1/03/23 A	nalyzed: 11/03/23		
Diesel Range Organics (C10-C28)	220	25.0	250	ND	87.9	38-132					
Surrogate: n-Nonane	42.7		50.0		85.5	50-200					
Matrix Spike Dup (2344086-MSD1)				Source:	E310306-	06	Prepared: 1	1/03/23 A	nalyzed: 11/03/23		
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.7	38-132	0.229	20			
Surrogate: n-Nonane	43.0		50.0		85.9	50-200					



## **QC Summary Data**

		QC D	umm	ary Date					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001	ite Com #2	201H			Reported:
Dallas TX, 75240		Project Manager:		Ashley Gioveng	jo				11/7/2023 3:12:43PM
	Nonh		Analyst: KM						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344092-BLK1)							Prepared: 1	1/03/23 A	nalyzed: 11/03/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.3	50-200			
LCS (2344092-BS1)							Prepared: 1	1/03/23 A	nalyzed: 11/03/23
Diesel Range Organics (C10-C28)	211	25.0	250		84.5	38-132			
Surrogate: n-Nonane	41.2		50.0		82.4	50-200			
Matrix Spike (2344092-MS1)				Source:	E310306-	24	Prepared: 1	1/03/23 A	nalyzed: 11/03/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132			
Surrogate: n-Nonane	37.6		50.0		75.1	50-200			
Matrix Spike Dup (2344092-MSD1)				Source:	E310306-	24	Prepared: 1	1/03/23 A	nalyzed: 11/03/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	2.64	20	
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			



# **QC Summary Data**

		<b>C</b> - · ·	-	·····					
Matador Resources, LLC.		Project Name:		Barry Miller Sta	ate Com #2	01H			Reported:
5400 LBJ Freeway, Suite 1500		Project Number:		23052-0001					-
Dallas TX, 75240		Project Manager	:	Ashley Gioveng	go				11/7/2023 3:12:43PM
		Anions	by EPA	300.0/9056A	۸				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344117-BLK1)							Prepared:	11/04/23	Analyzed: 11/04/23
Chloride	ND	20.0							
LCS (2344117-BS1)							Prepared:	11/04/23	Analyzed: 11/04/23
Chloride	248	20.0	250		99.0	90-110			
Matrix Spike (2344117-MS1)				Source:	E310306-0	)9	Prepared:	11/04/23	Analyzed: 11/06/23
Chloride	293	200	250	ND	117	80-120			
Matrix Spike Dup (2344117-MSD1)				Source:	E310306-0	)9	Prepared:	11/04/23	Analyzed: 11/06/23
Chloride	305	200	250	ND	122	80-120	3.79	20	M5



### **QC Summary Data**

			••••••						
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager		Barry Miller Sta 23052-0001 Ashley Gioveng		201H			<b>Reported:</b> 11/7/2023 3:12:43PM
		Anions	by EPA	300.0/9056A	<b>\</b>				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2344118-BLK1)	ND	20.0					Prepared: 1	1/04/23 A	Analyzed: 11/06/23
LCS (2344118-BS1)	nb	20.0					Prepared: 1	1/04/23 A	Analyzed: 11/06/23
Chloride	253	20.0	250	C	101	90-110	D	1/04/22	
Matrix Spike (2344118-MS1)	2(2	200	250		E310306-2		Prepared: 1	1/04/23 F	Analyzed: 11/06/23
Chloride Matrix Spike Dup (2344118-MSD1)	363	200	250	593 Source:	NR E310306-2	80-120 26	Prepared: 1	1/04/23 A	M2 Analyzed: 11/06/23
Chloride	761	200	250	593	67.2	80-120	70.7	20	M2, R3

QC Summary Report Comment:

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



Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/07/23 15:12

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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



Reproject Information

#### Chain of Custody

Received by OCD: 11/18/2023 1:15:35 PM

Client: N	Aatador Prod	duction (	Company.		Bill To				Labl	Jse C	Dnly				T	AT	EPA Program	
Project:	Barry	y Miller S	state Com	201H	Attention: Matador Production	Company	Lab W				b Nur			2D	3D	Standard		SDWA
Project N	Manager: As	shley Giov	vengo	-	Address: on file		E31	03	DLa	2	305	2-0001				Х		
	3122 Natio				City, State, Zip:	-						and Metho						RCRA
City, Sta	e, Zip: Carls	sbad NM,	,88220		Phone: (337)319-8398		by	1										
Phone:	575-988-005	5			Email: clinton.talley@matadorr	esources.con	ORO										State	1.0.1
Email: a	giovengo@e	ensolum.c	com				RO/	1	1 0		0.0		MN		X	NM CO	D UT AZ	TX
Report d	ue by:					1	0/0	00	8260	601	e 30					×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			TPH GR	8015 BTEV hu 8031	VOC by	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
9:53	10/30/2023	Soil	1 Jar	1.1.1	FS01 - 1.5'								x					
9:07	10/30/2023	Soil	1 Jar		FS03 - 1.5'								x					
9:09	10/30/2023	Soil	1 Jar		FS04 - 1.5'								x					
9:18	10/30/2023	Soil	1 Jar		FS04 - 1.5' FS05 - 1.5'								x					
):19 P	10/30/2023	Soil	1 Jar		FS06 - 1.5'								x					
Page ):19	10/30/2023	Soil	1 Jar	FS12 - 1'		le							x					
of ):21	10/30/2023	Soil	1 Jar	FS13 - 1'		7							x					
► 1:27	10/30/2023	Soil	1 Jar	SW03 - 0.5'		8							x					
10:27	10/30/2023	Soil	1 Jar		SW04 - 0.5'								x					
10:55	10/30/2023	Soil	1 Jar		FS20 - 1'	10							x					
Addition	al Instructio	ons: Plea	ase CC: cl	ourton@ensolu	um.com, agiovengo@ensolum.com, o	chamilton@e	nsolun	n.com	n, eha	ft@e	ensol	um.com	-					
				ty of this sample. I a ay be grounds for lega	an aware that tampering with or intentionally misla al action. <u>Sampled by:</u>	Belling the samp		n,								ceived on ice the da ess than 6 °C on sub		led or
Stu	ed by: (Signatur	4		31/23 07	with and a contract	Date Date	12 1	ne 100 ne	)	Ree	ceive	d on ice:		ab Us	e On	ly		
mo		Jongh		3123 15		0 10.31	.23	173	0	<u>T1</u>			<u>T2</u>			<u>T3</u>		
	ed by: (Signatur		Date	31.23 U4	Received by: (Signature)		23 5					np°C_L						
	rix: <b>S</b> - Soil, <b>Sd</b> - S				_ 0 >			_		_		c, ag - am	_	_	_			
					nless other arrangements are made. Hazardo atory with this COC. The liability of the labora								lient ex	kpense	e. The	e report for the	analysis of t	he above

Reproject Information

# Chain of Custody

	ient: Matador Production Company. oject: Barry Miller State Com 201H Attention: Matador Production C					Bill To			1	Lab U	se Or	nly			6. 3	TA	T	EPA Program		
Project:				n 201H		Attention: Matador Production	Company	Lab W	O#		Job	Num	ber	1D	2D	3D	Standa	ard	CWA	SDWA
	Aanager: As					Address: on file		ESI	030	24	2	30	52-0	<i>i</i> di			x			
	3122 Natio	The second second second				City, State, Zip:				-	Anal	ysis a	nd Meth	od	-		. W	-		RCRA
	e, Zip: Carls		88220		-	Phone: (337)319-8398		Vd O				1.11						4		
	75-988-005				-	Email: clinton.talley@matadorr	esources.con	/OR(				1.71							State	
	giovengo@e	ensolum.	com		_			DRO	021	60	10	0.00		NN		X	NM		JT AZ	TX
Report d	ue by:			-			Lab	RO/	by 8(	v 82	s 60	de 3		1 N			×		-	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	)		Number	TPH G	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		R	emarks	
10:57	10/30/2023	Soil	1 Jar		FS21 - 1'					1				x						
11:12	10/30/2023	Soil	1 Jar		SW08 - 0.5'									x						
10:46	10/30/2023	Soil	1 Jar	1	FS16 - 1'									x						
11:41	10/30/2023	Soil	1 Jar		FS17 - 1'									x				_		
0:48	10/30/2023	Soil	1 Jar		FS18 - 1'									x						
Page 0:49	10/30/2023	Soil	1 Jar	FS19 - 1'		re							x							
of 1:57	10/30/2023	Soil	1 Jar		FS24 -1'		17							x						
2:50	10/30/2023	Soil	1 Jar		FS25 - 1.5'		18							x						
11:49	10/30/2023	Soil	1 Jar		FS26 - 1'		19							x						
11:43	10/30/2023	Soil	1 Jar			FS27 - 1'	20							x						
Addition	al Instruction	ns: Plea	ase CC: c	burton@ei	nsolum.	.com, agiovengo@ensolum.com, o	chamilton@e	nsolun	n.com	, eha	ft@e	nsolu	im.com							
	ler), attest to the of collection is c					ware that tampering with or intentionally misl.		le location	1,		1000						eived on ice t ess than 6 °C c			ed or
attu	d by: (Signatur	4	Date 10	/31/23	Time 0700		Date 10310	13 1		)	Rece	eivec	on ice:		ab Us	e Onl	y			
mich	d by: (Signatur	mal	L 10	31-23	Time IS4	S Received by: (Signature)	Date 16.31		ne 173	D	T1			<u>T2</u>			<u>T3</u>			
Relinquishe	d by: (Signatur	re) ) 10550	Date 10		Time	neceived by: (Signature)	Date	Tir	ne B:S		AVG	6 Ten	np°c_C	4						
Sample Mat	ix: <b>S</b> - Soil, <b>Sd</b> - S	Solid, Sg - Slu	idge, A - Aqu	ueous, O - Othe	er	- 400	Containe								ass, v	- VOA				
	les are discard	ded 30 days	s after resu	Its are report	ted unless	s other arrangements are made. Hazardory with this COC. The liability of the labora	ous samples will	be retur	ned to	client	or disp	oosed	of at the					r the ana	alysis of th	ne above

Reproject Information

#### Chain of Custody

Received by OCD: 11/18/2023 1:15:35 PM

Page 148 of 185

Client: 1	Matador Pro	duction (	Company.		Bill To				L	ab U	se On	ly				TA	AT		EPA P	rogram
Project:		1	itate Com	201H	Attention: Matador Product	tion Company	Lat	o WO	#		Job	Num			2D	3D	Sta	indard	CWA	SDWA
	Manager: As				Address: on file		F	310	30	10	22	ns:	2-000	(				x		
-	: 3122 Natio				City, State, Zip:		-		~		Analy	sis an	d Metho	d		-				RCRA
	te, Zip: Carls				Phone: (337)319-8398		-	à						1	1					
	575-988-005		OULLU		Email: clinton.talley@matad	lorresources con		ROI											State	
	giovengo@e		om		Email: cinton.tailey@matad	ion coordination	1	0/0				0		WN			1 1	NM CO		TX
Report c		nsorum	.0111					/DR	8021	260	010	300				X		×		
	T		1	1		Lab		GRO	S I	by 8	ils 6	ride		8		U				<u> </u>
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Number		TPH GRO/DRO/ORO by 8015	BTEX	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
11:46	10/30/2023				FS28 - 1'	Line of the second s				1	2	-		1						
11.40		Soil	1 Jar		1320 1	21						1.1		X	-					
11:56	10/30/2023				FS29 - 1'															
11:50	10/ 50/ 2025	Soil	1 Jar	191	1323 - 1	33							1.0	X						
12.00	10/30/2023				FS30 - 1'			-		1										
12:00	10/50/2025	Soil	1 Jar		F350 - 1	23								X						
12.24	10/30/2023				FS31 - 1'	1	-	-	-	-					-					
13:31	10/50/2025	Soil	1 Jar		F331 - 1	DU								X						
2.24	10/30/2023				FS22 - 1'		-	-	-	-		-		-	-					
Page 4:16	10/30/2023	Soil	1 Jar	1 A	F522 - 1	25								X						
ag	10/20/2022				5022 2 F		-	-	-	-		-	-	-	-					
Φ 4:16	10/30/2023	Soil	1 Jar		FS23 - 2.5'	20								x						
<u>لت</u>		-	-			90	-		-	-				-						
43 of 44														X						
4							-	-	-	-			-	-	-					
				17										x						
		S					-	-	-	-		-		-	-					
1														x						
				1			-	-	-	-				-	-					
1.000						1.							10.1	x						
1.									-										_	
Addition	al Instructio	ns: Ple	ase CC: cl	burton@enso	lum.com, agiovengo@ensolum.co	m, chamilton@e	ensc	olum.o	com,	ehat	ft@er	nsolu	m.com							
I, (field sam	pler), attest to th	ne validity ar	nd authentici	ty of this sample.	I am aware that tampering with or intentionally	mislabelling the samp	ole loo	cation,			1.000							on ice the day t 6 °C on subse		led or
date or tim	e of collection is	considered f	fraud and ma	ay be grounds for l		le Burton	2	-			receive	d packe	d mile at an					0 00130030	quene ouys.	
Relinquish	ed by: (Signatu	re)/_	Date	14		Date	-	Time	-							se On	nly			
Gtu	1 Mill	It	10/	31/23 07	00 Mulle Kuga	le 10-31	2	1 0	10	2	Rece	eived	on ice:	0	DIN	1				
	ed by: (Signatu		Date	Time		Date		Time												
Mid	ille fo	eure	- 10	31-22 1	545 Ruble mus	50 10.3	1.2'	31	730	>	T1			<u>T2</u>			_ 2	T3		
Relinquish	ed by: (Signatu	re)	Date	Time	Received by: (Signature)	Date	1	Time					1	1						
A	abler 1	nigo	1-	31.23 2	400 dacent-	. 117	12	3 8	13	0	AVG	Tem	p°c_L	4						
Sample Ma	trix: S - Soil, Sd - S	Solid. Se - Sh			the change	Containe	er Ty			, p - 1	oly/p	lastic	, ag - aml	ber gl	ass, v	- VOA	A			
Note: Sam	ples are discar	ded 30 day	s after resu	Its are reported	unless other arrangements are made. Haz													rt for the a	nalysis of t	he above
samples is	applicable only	y to those s	samples rec	eived by the lab	pratory with this COC. The liability of the la	aboratory is limited	to th	e amou	unt pa	id for	on the	repor	rt.							
Lanpies is	a provide and			and the second second second							-						0			1000
											1-	3	- 2	0	M	16	/ I	I FA	10	0
											C	3		e	r			irc	JC	e

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. D	ate Received:	10/30/23	08:30	Work Order ID:	E310306
Phone:	(972) 371-5200 D	ate Logged In:	10/31/23	14:53	Logged In By:	Lacey Rodgers
Email:		ue Date:	11/03/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re-		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample temperature	mnerature: 4º	C			
	Container	<u></u>	<u> </u>			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation	10	•-			
	s the COC or field labels indicate the samples were press	erved?	No			
	sample(s) correctly preserved?	-1-9	NA			
	o filteration required and/or requested for dissolved meta	ais?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	s, does the COC specify which phase(s) is to be analyze	d?	NA			
	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if sc		No			

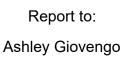
C

Date

envirotech Inc.

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

-





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:

Barry Miller State Com #201H

Work Order: E311019

Job Number: 23052-0001

Received: 11/2/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/8/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 11/8/23

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

Project Name: Barry Miller State Com #201H Workorder: E311019 Date Received: 11/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/2/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

Michelle Golzales Client Representative 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

		sample sum	lliai y		
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	Barry Miller State ( 23052-0001	Com #201H	Reported:
Dallas TX, 75240		Project Number: Project Manager:	Ashley Giovengo		11/08/23 13:18
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
832 - 1.5'	E311019-01A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
833 - 1.5'	E311019-02A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
S34 - 1'	E311019-03A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
835 - 1'	E311019-04A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
536 - 1'	E311019-05A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
337 - 1'	E311019-06A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
338 - 1'	E311019-07A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
539 - 1'	E311019-08A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
540 - 1'	E311019-09A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
541 - 1'	E311019-10A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
542 - 1'	E311019-11A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
543 - 1'	E311019-12A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
W05 - 0.5'	E311019-13A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
V06 - 0.5'	E311019-14A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
V07 - 0.5'	E311019-15A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.



5	ampic D	ata			
-		5	n #201H		Reported:
			11/8/2023 1:18:32PM		
	FS32 - 1.5'				
	E311019-01				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	: RKS		Batch: 2344071
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0500	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
	93.7 %	70-130	11/02/23	11/05/23	
mg/kg	mg/kg	Analys	: RKS		Batch: 2344071
ND	20.0	1	11/02/23	11/05/23	
	91.8 %	70-130	11/02/23	11/05/23	
mg/kg	mg/kg	Analys	:: JL		Batch: 2344122
ND	25.0	1	11/04/23	11/04/23	
ND	50.0	1	11/04/23	11/04/23	
	98.0 %	50-200	11/04/23	11/04/23	
mg/kg	mg/kg	Analys	: BA		Batch: 2345013
ND	200	10	11/06/23	11/07/23	
	Project Name Project Numb Project Mana Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Image         Image           Project Name:         Barn           Project Number:         2302           Project Manager:         Ash           FS32 - 1.5'         E311019-01           FS32 - 1.5'         E311019-01           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           91.8 %         mg/kg           Mg/kg         Mg/kg           ND         50.0           ND         50.0           ND         50.0           ND	Project Number:       23052-0001         Project Manager:       Ashley Giovengo         FS32 - 1.5'         FS32 - 1.5'         ES31019-01         Result       Limit         Reporting         Result       Limit       Dilution         mg/kg       mg/kg       Analyst         ND       0.0250       1         ND       20.0       1         mg/kg       mg/kg       Analyst         ND       25.0       1         ND       50.200       1         Mg/kg <td< td=""><td>I         Project Name:       Barry Miller State Com #201H         Project Number:       23052-0001         Project Manager:       Ashley Giovengo         FS32 - 1.5'         FS311019-01         Teoperad         Mady st Result         ND       0.0250       1       11/02/23         ND       0.0250       1       11/02/23         ND       20.0       1       11/02/23         MD       20.0       1       11/02/23         MD       20.0       1       11/02/23         MD       20.0       1       11/02/23      <t< td=""><td>Image in the second of the second of</td></t<></td></td<>	I         Project Name:       Barry Miller State Com #201H         Project Number:       23052-0001         Project Manager:       Ashley Giovengo         FS32 - 1.5'         FS311019-01         Teoperad         Mady st Result         ND       0.0250       1       11/02/23         ND       0.0250       1       11/02/23         ND       20.0       1       11/02/23         MD       20.0       1       11/02/23         MD       20.0       1       11/02/23         MD       20.0       1       11/02/23 <t< td=""><td>Image in the second of the second of</td></t<>	Image in the second of

# Sample Data



# Sample Data

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	D.	ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	ry Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS33 - 1.5'				
		E311019-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Fotal Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		92.5 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

#### Sample Data

	5	ample D	ala			
Matador Resources, LLC.	Project Name		y Miller State Cor	n #201H		
5400 LBJ Freeway, Suite 1500	Project Numb		52-0001			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			11/8/2023 1:18:32PM
		FS34 - 1'				
		E311019-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		96.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



#### Sample Data

	D	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	ber: 230	ry Miller State Con 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS35 - 1'				
		E311019-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		98.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



# Sample Data

	D	ampic D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	ry Miller State Cor 52-0001 ley Giovengo	<b>Reported:</b> 11/8/2023 1:18:32PM		
		FS36 - 1'				
		E311019-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		99.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



#### Sample Data

	G	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS37 - 1'				
		E311019-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
thylbenzene	ND	0.0250	1	11/02/23	11/05/23	
oluene	ND	0.0250	1	11/02/23	11/05/23	
-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
urrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
urrogate: n-Nonane		96.6 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



#### Sample Data

	D D	bample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS38 - 1'				
		E311019-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
thylbenzene	ND	0.0250	1	11/02/23	11/05/23	
oluene	ND	0.0250	1	11/02/23	11/05/23	
-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
urrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
urrogate: n-Nonane		98.6 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



#### Sample Data

	L.	bample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2303	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS39 - 1'				
		E311019-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ithylbenzene	ND	0.0250	1	11/02/23	11/05/23	
oluene	ND	0.0250	1	11/02/23	11/05/23	
-Xylene	ND	0.0250	1	11/02/23	11/05/23	
,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
urrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	11/02/23	11/05/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
urrogate: n-Nonane		96.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

#### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Con 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		FS40 - 1'				
		E311019-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		95.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



#### Sample Data

	5						
Matador Resources, LLC.	Project Name		Barry Miller State Com #201H				
5400 LBJ Freeway, Suite 1500	Project Number: 23052-0001					Reported:	
Dallas TX, 75240	Project Mana	ger: Ash		11/8/2023 1:18:32PM			
		FS41 - 1'					
		E311019-10					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: RKS		Batch: 2344071	
Benzene	ND	0.0250	1	11/02/23	11/05/23		
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23		
Toluene	ND	0.0250	1	11/02/23	11/05/23		
p-Xylene	ND	0.0250	1	11/02/23	11/05/23		
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23		
Fotal Xylenes	ND	0.0250	1	11/02/23	11/05/23		
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	11/02/23	11/05/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	11/02/23	11/05/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23		
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23		
Surrogate: n-Nonane		96.7 %	50-200	11/04/23	11/04/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2345013	
Chloride	ND	200	10	11/06/23	11/07/23		
Dil Range Organics (C28-C36) Surrogate: n-Nonane Anions by EPA 300.0/9056A Chloride	mg/kg	96.7 % mg/kg	50-200 Analyst	11/04/23 :: BA	11/04/23	Batch: 23	



#### Sample Data

	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		y Miller State Co 52-0001		Reported:	
Dallas TX, 75240	Project Mana	11/8/2023 1:18:32PM				
		FS42 - 1'				
		E311019-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	cg Analyst: JL			Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		96.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



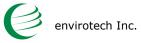
# Sample Data

5		uu			
Project Numb	ber: 230	52-0001	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
	FS43 - 1'				
	E311019-12				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
ND	0.0500	1	11/02/23	11/05/23	
ND	0.0250	1	11/02/23	11/05/23	
	94.8 %	70-130	11/02/23	11/05/23	
mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
ND	20.0	1	11/02/23	11/05/23	
	90.6 %	70-130	11/02/23	11/05/23	
mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
ND	25.0	1	11/04/23	11/04/23	
ND	50.0	1	11/04/23	11/04/23	
	98.0 %	50-200	11/04/23	11/04/23	
mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
ND					
	Project Name Project Num Project Mana Result Mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         Barr           Project Number:         2302           Project Manager:         Ash           Project Manager:         Ash           FS43 - 1'         E311019-12           E311019-12         Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           90.6 %         Mg/kg           Mg/kg         Mg/kg           ND         25.0           ND         50.0           ND         50.0	Project Number: $23052-0001$ Project Manager: $Ashley Giovengo$ FS43 - 1'         FS43 - 1'         E311019-12         Teget Manager:         Result         Reporting         Result       Limit       Dilution         mg/kg       mg/kg       Analyst         ND       0.0250       1         ND       20.0       1         Mg/kg       mg/kg       Analyst         ND       20.0       1         MD       25.0       1         ND       50.0       1         ND       50.0       1	I         Project Name:       Barry Miller State Com #201H         Project Number:       23052-0001         Project Manager:       Ashley Giovengo         FS43 - 1'         Teoperting         Result       Dilution       Prepared         MD       0.0250       1       1/02/23         ND       0.0250       1       1/02/23         ND       20.0       1       1/02/23         MD       20.0       1       1/02/23         MD       20.0       1       1/02/23         MD       20.0       1       1/02/2	Image: Barry Miller State Com #201H         Project Namber: $23052-0001$ Project Manager:       Ashley Giovengo         FS43 - 1'         E311019-12         FS43 - 1'         E311019-12         FS43 - 1'         E311019-12         FS43 - 1'         Team         Result       Dilution       Prepared       Analyzed         Mg/kg       Mg/kg       Analyst: RKS         ND       0.0500       11/02/23       11/05/23



#### Sample Data

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 2303	ry Miller State Cos 52-0001 ley Giovengo	m #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		SW05 - 0.5'				
		E311019-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
p-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Fotal Xylenes	ND	0.0250	1	11/02/23	11/05/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		85.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	y Miller State Cor 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		SW06 - 0.5'				
		E311019-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
thylbenzene	ND	0.0250	1	11/02/23	11/05/23	
oluene	ND	0.0250	1	11/02/23	11/05/23	
-Xylene	ND	0.0250	1	11/02/23	11/05/23	
o,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
urrogate: 4-Bromochlorobenzene-PID		97.4 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
urrogate: n-Nonane		96.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2345013
Chloride	298	200	10	11/06/23	11/07/23	



#### Sample Data

	5	ample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	y Miller State Con 52-0001 ley Giovengo	n #201H		<b>Reported:</b> 11/8/2023 1:18:32PM
		SW07 - 0.5'				
		E311019-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
-Xylene	ND	0.0250	1	11/02/23	11/05/23	
,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
urrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2344122	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Dil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
urrogate: n-Nonane		105 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	arry Miller Sta 052-0001		201H			<b>Reported:</b> 11/8/2023 1:18:32PM
Dallas TX, 75240		Project Manager:	As	shley Gioveng	go				11/8/2023 1:18:32PM
		Volatile O	rganics t	oy EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344071-BLK1)							Prepared: 1	1/02/23 A	analyzed: 11/05/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			
LCS (2344071-BS1)							Prepared: 1	1/02/23 A	analyzed: 11/05/23
Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
p-Xylene	5.14	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	7.40		8.00		92.5	70-130			
Matrix Spike (2344071-MS1)				Source:	E311019-(	02	Prepared: 1	1/02/23 A	analyzed: 11/05/23
Benzene	5.44	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
p-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			
Matrix Spike Dup (2344071-MSD1)				Source:	E311019-(	02	Prepared: 1	1/02/23 A	analyzed: 11/05/23
Benzene	5.06	0.0250	5.00	ND	101	54-133	7.34	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	7.54	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	7.47	20	
p-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	7.41	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	7.50	20	
· · · ·									
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	7.47	20	



# **QC Summary Data**

		$\chi \cup \sim$		ary Date	•				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001	te Com #2	201H			Reported:
Dallas TX, 75240		Project Manager:	L	Ashley Gioveng	0				11/8/2023 1:18:32PM
	Noi	nhalogenated O	rganic	s by EPA 801	5D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344071-BLK1)							Prepared: 1	1/02/23 A	nalyzed: 11/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			
LCS (2344071-BS2)							Prepared: 1	1/02/23 A	analyzed: 11/05/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			
Matrix Spike (2344071-MS2)				Source:	E311019-(	02	Prepared: 1	1/02/23 A	analyzed: 11/05/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			
Matrix Spike Dup (2344071-MSD2)				Source:	E311019-(	02	Prepared: 1	1/02/23 A	nalyzed: 11/05/23
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130	6.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

# **QC Summary Data**

		QU D	umm	ary Date	u				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Barry Miller Sta 23052-0001	ate Com #2	201H			Reported:
Dallas TX, 75240		Project Manager:		Ashley Gioveng	go				11/8/2023 1:18:32PM
	Nonh	alogenated Org	anics b	y EPA 8015E	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344122-BLK1)							Prepared: 1	1/04/23 A	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			
LCS (2344122-BS1)							Prepared: 1	1/04/23 A	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike (2344122-MS1)				Source:	E311019-	05	Prepared: 1	1/04/23 A	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			
Matrix Spike Dup (2344122-MSD1)				Source:	E311019-	05	Prepared: 1	1/04/23 A	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.4	38-132	3.30	20	
Surrogate: n-Nonane	50.9		50.0		102	50-200			



# **QC Summary Data**

			-							
Matador Resources, LLC.		Project Name:		Barry Miller Sta	ate Com #2	01H			Reported:	
5400 LBJ Freeway, Suite 1500		Project Number:		23052-0001						
Dallas TX, 75240		Project Manager:	:	Ashley Gioveng	go				11/8/2023 1:18:3	2PM
		Anions	by EPA	300.0/9056	4				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2345013-BLK1)							Prepared:	11/06/23	Analyzed: 11/07/2	3
Chloride	ND	20.0								
LCS (2345013-BS1)							Prepared:	11/06/23	Analyzed: 11/07/2	3
Chloride	247	20.0	250		98.8	90-110				
Matrix Spike (2345013-MS1)				Source:	E311019-0	5	Prepared:	11/06/23	Analyzed: 11/08/2	3
Chloride	277	200	250	ND	111	80-120				
Matrix Spike Dup (2345013-MSD1)				Source:	E311019-0	5	Prepared:	11/06/23	Analyzed: 11/07/2	3
Chloride	279	200	250	ND	112	80-120	0.765	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.



Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/08/23 13:18

- 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.

Release

Received by OCD: 11/18/2023 1:15:35 PM

Client	Bill To           Project:         Barry Miller State Com 201H								Lab	Use	Only		TAT					EPA Pr	
Projec				201H	Attention: Matador F	roduction Company	Lab W	O#			ob Nu			1D 2D 3D		Sta	andard	CWA	SDWA
Projec	t Manager: As	hley Giov	vengo		Address: on file		EB	10	19	12	2305	2.000					х		
ddre	s: 3122 Natio	nal Parks	Hwy		City, State, Zip:				-	A		and Meth							RCRA
ity, S	ate, Zip: Carls	bad NM	88220		Phone: (337)319-8398		by	0						1					
hone	: 575-988-005	5			Email: clinton.talley@	matadorresources.com	RO				11							State	1.1
mail:	agiovengo@e	nsolum.	com				0/0		-	. 1	0		WN		1.0		NM CO	UT AZ	TX
	due by:						TPH GRO/DRO/ORO by		BTEX by 8021	007	Metals 6010 Chloride 300.0		z		¥		×		
Time		Sec. 2	No. of			Lab	GRO		by	nλα	Metals 6010 Chloride 300		8		Ŋ			3.1.1.2	
Sample	d Date Sampled	Matrix	Containers	Sample ID		Number	Hd	8015	STEX	3	Meta		BGDOC		GDOC			Remarks	
12:02	10/31/2023	Soil	1 Jar		FS32 - 1.5'	1	-				2 0		x		0				
12:03	10/31/2023	Soil	1 Jar		FS33 - 1.5'	2		T					x						
8:50	10/31/2023	Soil	1 Jar		FS34 - 1'	3							x						
11:53	10/31/2023	Soil	1 Jar		FS35 - 1'								x	1					
8:56	10/31/2023	Soil	1 Jar	FS36 - 1'		5							x						
8:58	10/31/2023	Soil	1 Jar	FS37 - 1'		10							x						
9:04	10/31/2023	Soil	1 Jar	FS38 - 1'		7							x						
9:06	10/31/2023	Soil	1 Jar	FS39 - 1'		8							x						
9:08	10/31/2023	Soil	1 Jar		FS40 - 1'	9							x						
9:13	10/31/2023	Soil	1 Jar		FS41 - 1'	(0)				1			x						
diti	onal Instructio	ns: Plea	ase CC: cb	ourton@enso	lum.com, agiovengo@ensol	um.com, chamilton@e	nsolum	1.coi	m, eh	aft(	@enso	lum.com							
	mpler), attest to the me of collection is c				l am aware that tampering with or inte egal action. <u>Sampled by</u>	ntionally mislabelling the samp Ethan Haft & Cole Burton	e location	n,				uiring thermal cked in ice at a							led or
lingui	shed by: (Signatur shed by: (Signatur	lll	Date	Time	700 Michile Received by: (Signature	e) Date		ne ne	10	F	Receive	d on ice:	C	ab Us	e On	ly			
2.1	shed by: (Signatur	eyk	Date	1-23 15 Time	Received by:/Signatu	e) Date	23 Tin	ne	12.1	_ <u>I</u>	1		<u>T2</u>			-	<u>T3</u>		
A	notion m	1930	11.	1.23 2	300 Received by: Signatur	nar 11.6.0	312	5.1	15	A	VG Te	mp °C	1						
nple N	latrix: S - Soil, Sd - S	olid, Sg - Slu				Containe	Type: g	g - gla	ass, p	- po	ly/plast	ic, ag - am	ber g	lass, v	- VOA	4			
					unless other arrangements are mad pratory with this COC. The liability of	le. Hazardous samples will	be return	ned t	o clien	tor	dispose	d of at the d					ort for the a	nalysis of t	the above

Release Project Information

Received by OCD: 11/18/2023 1:15:35 PM

Client: I	Client: Matador Production Company. Bill To Project: Barry Miller State Com 201H Attention: Matador Production Co							Lab L	Jse O	nly				EPA P	rogram			
Project:	Barry	/ Miller S	tate Com	201H	Attention: Matador Produ	iction Company	Lab W	VO#		Job	Num	ber	1D	2D	3D	Standard	CWA	SDW
Project I	Manager: As	hley Giov	/engo		Address: on file		E3	1101	9							х	0	
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip:					Ana	ysis a	nd Metho	bd					RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		Phone: (337)319-8398		hu	λn							1		1.	
Phone:	575-988-005	5			Email: clinton.talley@mata	adorresources.com	Cac	DAU DAU									State	
Email: a	giovengo@e	nsolum.c	com				108				0.0		MN		X	NM CO	UT AZ	TX
Report c	lue by:	_					0/0		y 80.	601(	e 30				1.2	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	TDH GB	8015 8015	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Remarks	
11:44	10/31/2023	Soil	1 Jar		FS42 - 1'	11							x					
11:47	10/31/2023	Soil	1 Jar		FS43 - 1'	12							x					
10:04	10/31/2023	Soil	1 Jar		SW05 - 0.5'	13							x					
10:09	10/31/2023	Soil	1 Jar		SW06 - 0.5'	14							x					
10:14	10/31/2023	Soil	1 Jar		SW07 - 0.5'	15							x		-			
Addition	al Instruction	ns: Plea	ase CC: cl	ourton@enso	lum.com, agiovengo@ensolum.c	com, chamilton@e	nsolu	m.cor	n, eha	ft@e	ensol	um.com						
				ty of this sample. by be grounds for le	l am aware that tampering with or intentiona egal action. Sampled by:	Ily mislabelling the samp Ethan Haft & Cole Burton	le locatio	on,								eceived on ice the day less than 6 °C on sub		oled or
Elle	ed by: (Signatur	U			700 Midelle Con		23	lime	10	Re	ceive	d on ice:	Ľ	ab U	se Or N	nly		
MUC	ied by: (Signatur	suy &	- Il-	1:27 19	530 Andre millo		23	l Time	30	<u>T1</u>			<u>T2</u>			<u>T3</u>		
/	ed by: (Signatur	re) v	Date //	1.23 Time	Boo Cuth M	an 11.2.0		8:1	15			np °C	4					
	trix: S - Soil, Sd - S	olid, <b>Sg</b> - Slu										c, ag - am						
					unless other arrangements are made. H								lient e	expens	se. Th	e report for the	analysis of	the above
samples is	applicable only	to those s	amples rec	eived by the labo	pratory with this COC. The liability of the	laboratory is limited t	o the ar	mount	paid fo	r on th	ne rep	ort.				and the second	-	

Page 27 of 28

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC.	ate Received:	11/02/23	08:15	Work Order ID:	E311019
Phone:	(972) 371-5200 D	ate Logged In:	11/01/23	17:14	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com D	Due Date:	11/08/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	Cooler					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e 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 th	e sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
Sample (	Container					
14. Are a	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	bel					
20. Were	field sample labels filled out with the minimum inform	nation:				
	ample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation_ the COC or field labels indicate the samples were pres	erved?	No			
	ample(s) correctly preserved?		NO			
	filteration required and/or requested for dissolved met	als?	NA			
			110			
	ase Sample Matrix	,				
	the sample have more than one phase, i.e., multiphase		No			
•	, does the COC specify which phase(s) is to be analyze	5 <b>U</b> (	NA			
<b>~</b> •	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA	Subcontract Lab: NA		



envirotech Inc.

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

•



# APPENDIX G

# **Regulatory Correspondence**

Released to Imaging: 3/15/2024 9:11:17 AM

From:	Hamlet, Robert, EMNRD
To:	Ashley Giovengo
Cc:	clinton.talley@matadorresources.com; Cole Burton; Chad Hamilton; Wells, Shelly, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date:	Thursday, August 31, 2023 11:49:16 AM
Attachments:	image006.png image007.png
	image008.png image009.png

You don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

#### [ \*\*EXTERNAL EMAIL\*\*]

Ashley,

The variance is approved for collecting 5-point composite area floor samples to represent each 400 ft2 area. Sidewall confirmation samples will still need to be collected every 200 ft2 to define the edge of the release area. Please include this e-mail correspondence in the remediation and/or closure report.

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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, August 31, 2023 10:37 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

From: Ashley Giovengo <agiovengo@ensolum.com
Sent: Thursday, August 31, 2023 10:31 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; Spills@slo.state.nm.us

**Cc:** <u>clinton.talley@matadorresources.com</u>; Cole Burton <<u>cburton@ensolum.com</u>>; Chad Hamilton <<u>chamilton@ensolum.com</u>>

**Subject:** [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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

Hello,

Matador Production (Matador) is requesting a sampling variance at the Barry Miller State Com 201H site (Incident Numbers nAPP2319455228 & nAPP2319663541). On July 12, 2023, a 12" coupling on a water transfer pipeline header failed, resulting in the release of 110 barrels (bbls) of produced water off-pad. On July 18, 2023, a second release occurred due to a line burst and 20.85 bbls of produced water was released onto an additional area off-pad. The impacted areas measure approximately 12, 292 square feet (sq. ft.) and 4,682 sq. ft. respectively. A desktop review for potential site receptors and delineation sampling to the strictest closure criteria have been completed for both releases. According to the desktop review, the closest permitted groundwater well with depth to ground water data is New Mexico Office of the State Engineer (NMOSE) well, C 04702 POD2 with a depth to groundwater measurement of 46 ft. bgs. The well is located 1.43 miles southwest of the site and 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).

Laboratory analytical results from delineation soil samples indicated that chloride concentrations were in compliance with the reclamation requirement (19.15.29.13 NMAC) at 1-foot below ground surface (bgs). Matador intends to excavate both spill areas in accordance with the reclamation requirement and conduct final confirmation sampling at the conclusion of both excavations. Due to the size (16, 974 sq. ft) and shallow nature of both release extents, Matador would like to request a sampling variance of every 400 sq. ft on confirmation floor samples and every 400 feet on confirmation sidewall samples. Matador believes this *variance request* will provide equal or better protection of public health, the environment, and groundwater and respectfully requests approval for both incident numbers (nAPP2319455228 & nAPP2319663541).

Thanks,



Ashley Giovengo Senior Engineer 575-988-0055 Ensolum, LLC

From:	Hamlet, Robert, EMNRD
To:	Ashley Giovengo
Cc:	<u>Cole Burton; Chad Hamilton; Ethan Haft; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD</u>
Subject:	Extension Approval - Matador Production - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date:	Thursday, October 5, 2023 1:29:42 PM
Attachments:	image006.png
	image007.png
	image008.png
	image009.png

You don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

#### [ \*\*EXTERNAL EMAIL\*\*]

#### RE: Incident #NAPP2319455228 & NAPP2319663541

#### Ashley,

Your request for an extension to **December 4th, 2023** is approved. 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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, October 5, 2023 9:29 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador Production - Extension Request - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

From: Ashley Giovengo <agiovengo@ensolum.com</li>
Sent: Thursday, October 5, 2023 8:17 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; Eco@slo.state.nm.us
Cc: clinton.talley@matadorresources.com; Cole Burton <<u>cburton@ensolum.com</u>>; Chad Hamilton

<<u>chamilton@ensolum.com</u>>; Ethan Haft <<u>ehaft@ensolum.com</u>>

**Subject:** [EXTERNAL] Matador Production - Extension Request - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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

All,

Matador is requesting an extension of the current deadline of October 05, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Barry Miller State Com 201H (Incident Number nAPP2319455228) and an extension of the current deadline of October 16, 2023, for the second Barry Miller State Com 201H release (Incident Number nAPP2319663541). The first release at the Barry Miller State Com 201H occurred on July 12, 2023, and as a result, 110 barrels (bbls) of produced water were released into a pasture area off-pad. The second release occurred on July 18, 2023, and as a result, 20.85 bbls of produced water were released onto an adjacent area off-pad. Since both releases occurred in area's off-pad and on State Trust Land, an ARMS review for the Site was completed by Beaver Creek Archaeology. During the ARMS review, it was determined that the first release impacted an area that had not been surveyed for cultural properties and in order to comply with the *Cultural Properties Protection Rule* (19.2.24 NMAC), a survey would need to be completed prior to excavation and remediation of the subject area release. The archaeological survey was completed, the cultural resource findings were negative for the release area. An initial site assessment and delineation sampling has been completed for both releases and the excavation is currently scheduled with third-party contractors. Due to the time spent completing the archaeological survey and the timeline that is needed to complete the excavation of both releases, conduct confirmation sampling, review laboratory analytical data, and to submit a remediation work plan or closure report, Matador hereby requests a 60-day extension of the aforementioned deadlines to December 04, 2023.

Thanks,



Ashley Giovengo Senior Engineer 575-988-0055 Ensolum, LLC

From:	Rodgers, Scott, EMNRD
То:	<u>Ashley Giovengo; spills@slo.state.nm.us; clinton.talley@matadorresources.com; Hamlet, Robert, EMNRD;</u> Bratcher, Michael, EMNRD
Cc:	Cole Burton; Ethan Haft; Chad Hamilton
Subject:	RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Barry Miller State Com #201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date:	Friday, October 20, 2023 10:16:33 AM
Attachments:	image006.png image007.png image008.png image009.png

#### [ \*\*EXTERNAL EMAIL\*\*]

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd\_



From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Friday, October 20, 2023 10:14 AM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us;

clinton.talley@matadorresources.com

**Cc:** Cole Burton <cburton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>

**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company -Barry Miller State Com #201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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Hello,

We intend to collect confirmation samples at Matador Production Company's, Barry Miller State Com #201H site (Incident Numbers *nAPP2319455228 & nAPP2319663541*) beginning on Thursday, October 26, 2023, at 09:00 am MST through Friday, November 03, 2023. Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



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

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	286960
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. The site will need to be reseeded in the first favorable growing season following closure of the site pursuant to 19.15.29.13 NMAC.	3/15/2024
bhall	A revegetation report will need to be submitted as soon as the revegetation is complete and meet the requirements of 19.15.29.13 NMAC.	3/15/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/15/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/15/2024

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Action 286960