ENSOLUM

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).

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® chloride QuanTab® 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-

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® 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

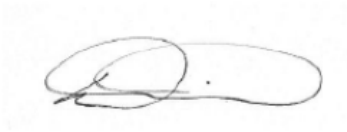
NMOCD Table I. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

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

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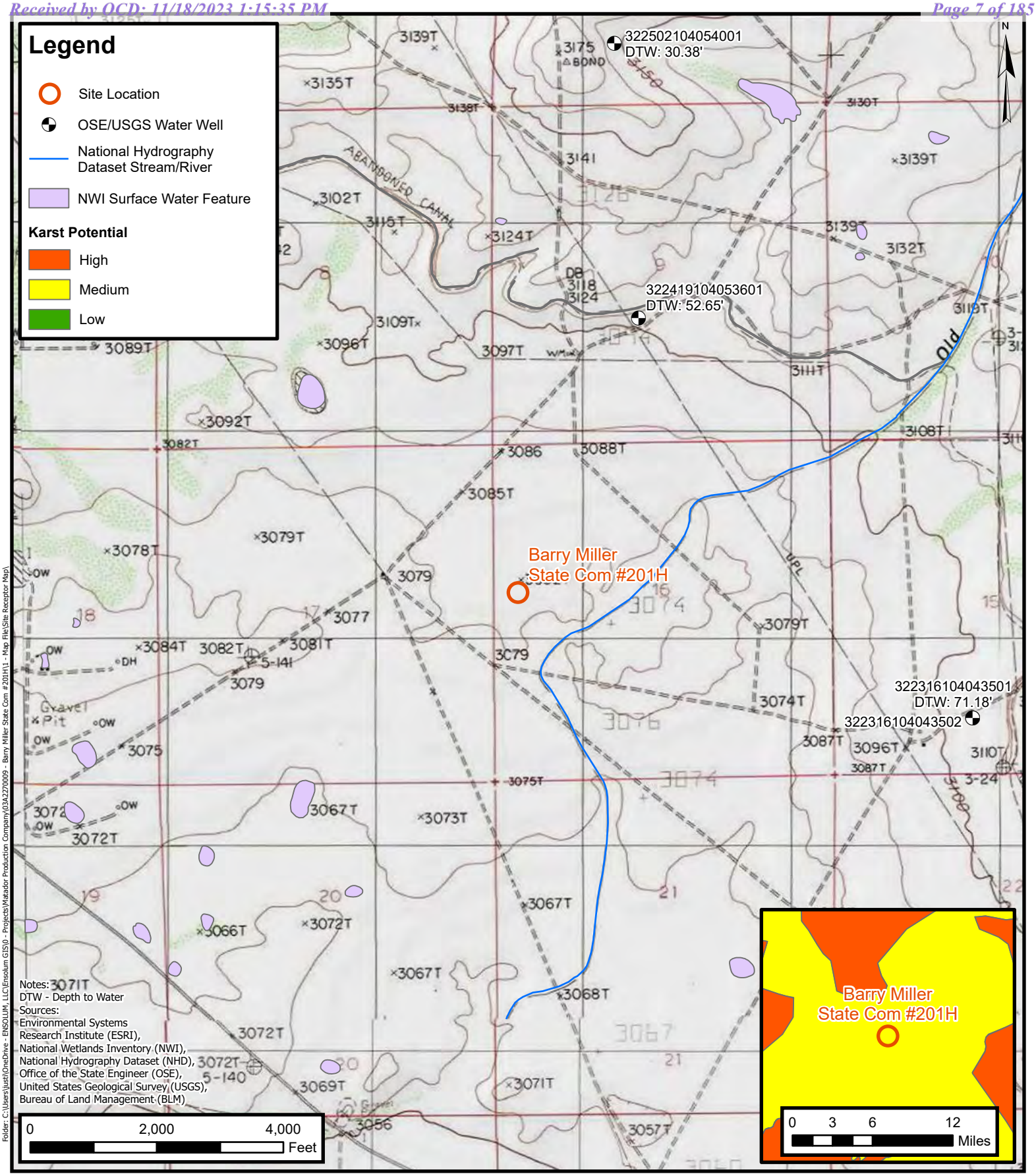
FIGURES



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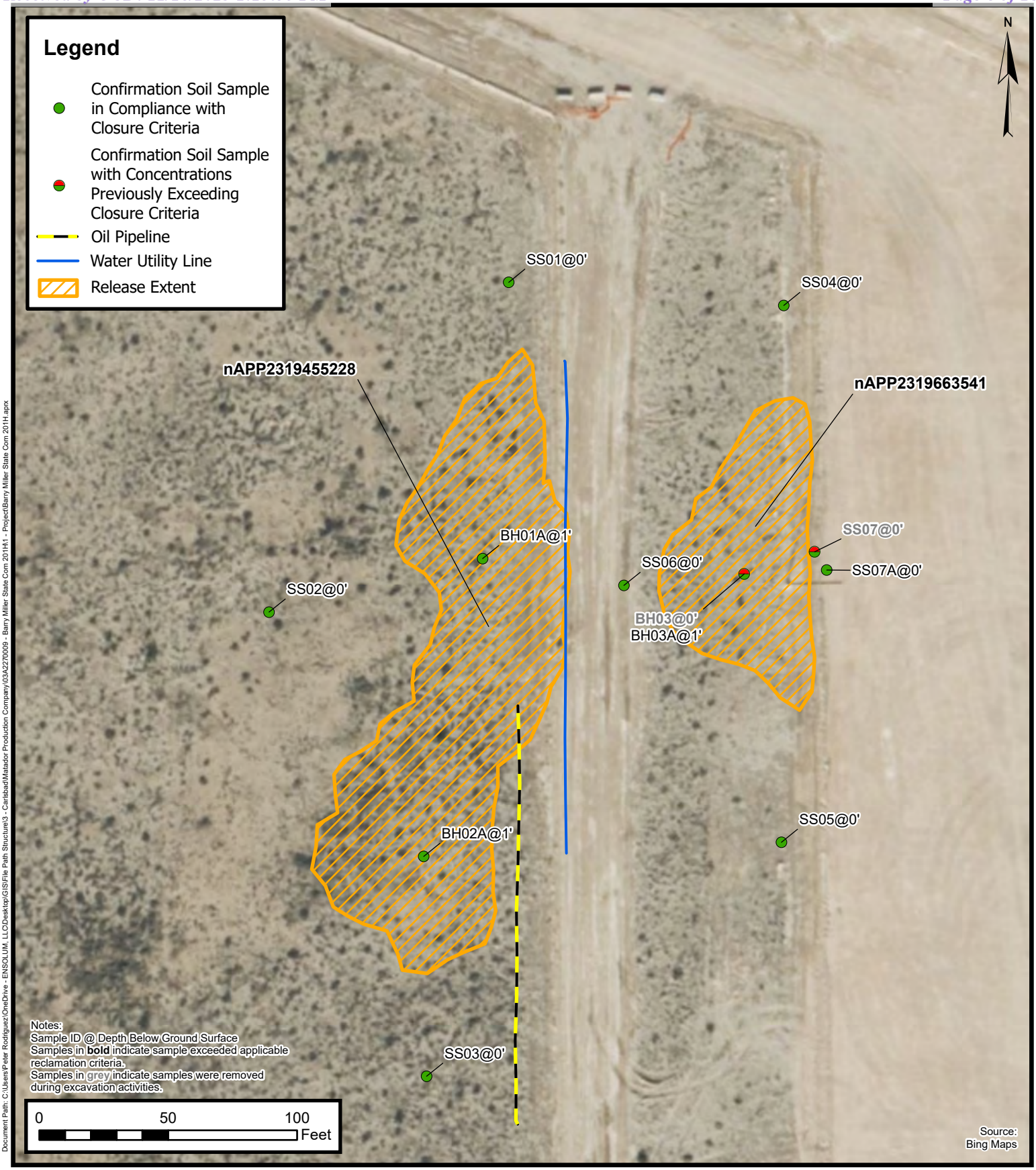
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Matador Production Company
Barry Miller State Com #201H
Incident Number: nAPP2319455228 & NAPP2319663541
Unit D, Section 16, T 22S, R 28E
Eddy County, New Mexico

FIGURE 1



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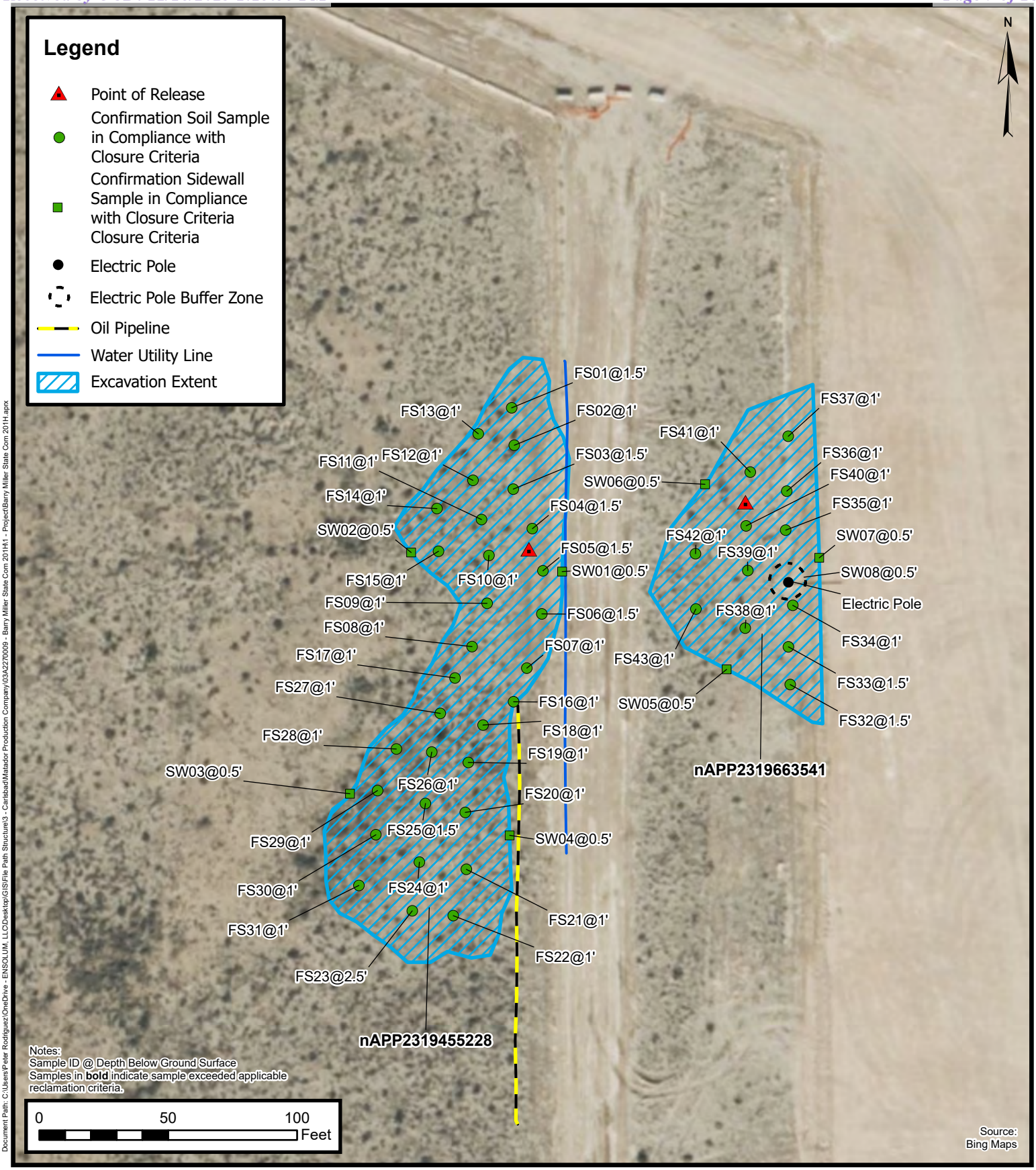
Delineation Soil Sample Locations

Matador Production Company
Barry Miller State Com #201H
Incident Number: nAPP2319455228 & nAPP2319663541
Unit E, Section 16, Township 22S, Range 28E
Eddy County,New Mexico

FIGURE
2



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Confirmation Soil Sample Locations

Matador Production Company
Barry Miller State Com #201H
Incident Number: nAPP2319455228 & nAPP2319663541
Unit E, Section 16, Township 22S, Range 28E
Eddy County,New Mexico

FIGURE
3

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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**
Delineation Soil Samples										
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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*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.*

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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
Excavation Floor Soil Samples										
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**
Excavation Floor Soil Samples										
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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*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.*

ENSOLUM

TABLE 3
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**
Excavation Sidewall Soil Samples										
SW01	10/27/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

*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.*

ENSOLUM

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

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” coupling on water transfer pipeline header failed. The spill 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 x 0.083) / 4.21)) x 0.45 = 109.489 bbls

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ 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.
☒ 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 Title: EHS Supervisor

Signature: Clint Talley Date: 07/13/2023

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

OCD Only

Received by: Shelly Wells Date: 7/14/2023

State of New Mexico
Oil Conservation Division

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?	46 (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 **not** 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.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

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

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: Clint Talley

Date: 07/25/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Clint Talley Title: EHS Supervisor

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

CONDITIONS

Created By	Condition	Condition Date
scwells	None	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

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 x 0.0416) / 4.21)) x 0.45 = 20.85 bbls

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ 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.
☒ 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
Title: EHS Supervisor

Signature: Clint Talley
Date: 07/25/2023

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

OCD Only

Received by: Shelly Wells
Date: 7/27/2023

State of New Mexico
Oil Conservation Division

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?	46 (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 **not** 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.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Clint Talley Title: EHS Supervisor

Signature: Clint Talley Date: 07/25/2023

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

OCD Only

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

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/27/2023

ENSOLUM

APPENDIX B

Referenced Wells

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04702 POD2	2	1	4	18	22S	28E	582367	3584016

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	JOHN W. WHITE				
Drill Start Date:	02/13/2023	**Drill Finish Date:**	02/16/2023	**Plug Date:**	02/16/2023
Log File Date:	03/06/2023	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	55 feet	**Depth Water:**	46 feet

Water Bearing Stratifications:	Top	Bottom	Description
	44	50	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	30	55

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 07/21/2023
	Site Name: Barry Miller State Com #201H	
	Incident Number: nAPP2319455228	
	Job Number: 03A2270009	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Chad Hamitlon	Method: Hand Auger
Coordinates: 32.393222, -104.100274	Hole Diameter: 3"	Total Depth: 3'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry		0		BH01	0.5'		SM	Silty, well sorted, no odor, slight staining, tan to white in color
Dry		0		BH01A	1'	1	SM	Silty, well sorted, no odor, no staining, tan to white in color
Dry		0		BH01B	2'	2	SM	SAA
Dry		0		BH01C	3'	3	SM	SAA

Total Depth 3' bgs.

ENSOLUM	Sample Name: BH02	Date: 07/21/2023
	Site Name: Barry Miller State Com #201H	
	Incident Number: nAPP2319455228	
	Job Number: 03A2270009	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Chad Hamitlon	Method: Hand Auger
Coordinates: 32.392905, -104.100352	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry		0		BH02	0.5'		SM	Silty, well sorted, no odor, no staining, tan to white in color
Dry		0		BH02A	1'	1	SM	SAA

Total Depth 1' bgs.

ENSOLUM	Sample Name: BH03	Date: 08/03/2023
	Site Name: Barry Miller State Com #201H	
	Incident Number: nAPP2319455228	
	Job Number: 03A2270009	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Chad Hamitlon	Method: Hand Auger
Coordinates: 32.39320, -104.09995	Hole Diameter: 3"	Total Depth: 1'

Comments: Field screening conducted with Chloride Titration MOHR Method. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry		0		BH03	0.5'		SM	Silty, well sorted, no odor, no staining, tan to white in color
Dry		0		BH03	1'	1	SM	SAA

Total Depth 1' bgs.

ENSOLUM

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:
(if applicable)

Exhibit Type (select one)

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: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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

ENSOLUM

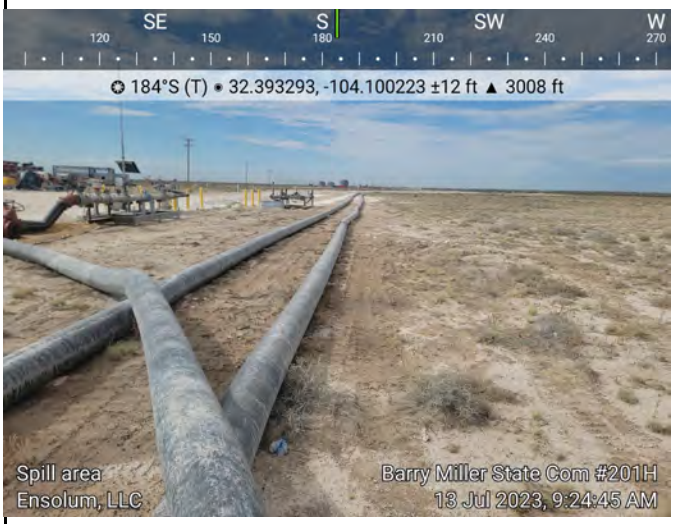
APPENDIX E

Photographic Log

ENSOLUM

Photographic Log
Matador Production Company
Barry Miller State Com 201H
nAPP2319455228 & nAPP2319663541

Photograph 1 Date: 07/13/2023
Description: Lease sign for the Barry Miller State Com #201H
View: South



Photograph 2 Date: 07/13/2023
Description: Spill Area #1
View: South

Photograph 3 Date: 07/13/2023
Description: Spill Area #1
View: North

Photograph 4 Date: 07/19/2023
Description: Spill Area #2
View: South

ENSOLUM

Photographic Log
Matador Production Company
Barry Miller State Com 201H
nAPP2319455228 & nAPP2319663541

Photograph 5 Date: 07/19/2023
Description: Spill Area #2
View: East

Photograph 6 Date: 07/21/2023
Description: Vertical Delineation (BH01)
View: Southeast

Photograph 7 Date: 08/03/2023
Description: Vertical Delineation (BH03)
View: South

Photograph 8 Date: 10/26/2023
Description: Excavation area
View: East

ENSOLUM

Photographic Log
Matador Production Company
Barry Miller State Com 201H
nAPP2319455228 & nAPP2319663541

Photograph 9 Date: 10/26/2023
Description: Waste containing soil
View: Southwest

Photograph 10 Date: 10/27/2023
Description: Excavation area
View: North

Photograph 11 Date: 10/30/2023
Description: Excavation area
View: East

Photograph 12 Date: 10/31/2023
Description: Excavation area
View: Southeast

ENSOLUM

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
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.

Sample Data

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	7/31/2023 2:15:50PM

SS01 - 0'

E307136-01

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	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/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		*85.9 %*	*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

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	7/31/2023 2:15:50PM

SS02 - 0'

E307136-02

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	
Oil 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

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	7/31/2023 2:15:50PM

SS03 - 0'

E307136-03

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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		*97.0 %*	*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		*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		*97.0 %*	*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	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
Surrogate: n-Nonane		*93.5 %*	*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	10	07/25/23	07/27/23	

Sample Data

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	7/31/2023 2:15:50PM

SS04 - 0'

E307136-04

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	
Oil 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

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	7/31/2023 2:15:50PM

SS05 - 0'

E307136-05

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	
Oil 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

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	7/31/2023 2:15:50PM

SS06 - 0'

E307136-06

Analyte	Result	Reporting Limit	Dilution	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	
o-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: 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		*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	10	07/25/23	07/27/23	

Sample Data

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	7/31/2023 2:15:50PM

BH01A - 1'

E307136-07

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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

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	7/31/2023 2:15:50PM

BH02A - 1'

E307136-08

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	
Oil 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	10	07/25/23	07/27/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2023 2:15:50PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2330031-BLK1)									Prepared: 07/25/23 Analyzed: 07/27/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.471*		*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-BS1)									Prepared: 07/25/23 Analyzed: 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			
Toluene	2.38	0.0250	2.50		95.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.0	70-130			
p,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Total 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: E307136-02**					Prepared: 07/25/23 Analyzed: 07/27/23
Benzene	2.37	0.0250	2.50	ND	94.6	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	91.9	45-135			
Toluene	2.32	0.0250	2.50	ND	92.8	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.2	43-135			
p,m-Xylene	4.76	0.0500	5.00	ND	95.2	43-135			
Total Xylenes	7.17	0.0250	7.50	ND	95.6	43-135			
Surrogate: Bromofluorobenzene	*0.471*		*0.500*		*94.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: Toluene-d8	*0.485*		*0.500*		*97.0*	*70-130*			
Matrix Spike Dup (2330031-MSD1)				**Source: E307136-02**					Prepared: 07/25/23 Analyzed: 07/27/23
Benzene	2.35	0.0250	2.50	ND	94.0	48-131	0.636	23	
Ethylbenzene	2.26	0.0250	2.50	ND	90.4	45-135	1.60	27	
Toluene	2.30	0.0250	2.50	ND	92.0	48-130	0.888	24	
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135	1.80	27	
p,m-Xylene	4.68	0.0500	5.00	ND	93.5	43-135	1.83	27	
Total Xylenes	7.04	0.0250	7.50	ND	93.8	43-135	1.82	27	
Surrogate: Bromofluorobenzene	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.490*		*0.500*		*98.0*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2023 2:15:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2330031-BLK1)									Prepared: 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)									Prepared: 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**					Prepared: 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**					Prepared: 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2023 2:15:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2330050-BLK1)									Prepared: 07/25/23 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: 07/25/23 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: E307123-33**					Prepared: 07/25/23 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: E307123-33**					Prepared: 07/25/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2023 2:15:50PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2330052-BLK1)									Prepared: 07/25/23 Analyzed: 07/27/23
Chloride	ND	20.0							
LCS (2330052-BS1)									Prepared: 07/25/23 Analyzed: 07/27/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2330052-MS1)				**Source: E307136-01**					Prepared: 07/25/23 Analyzed: 07/27/23
Chloride	259	100	250	ND	104	80-120			
Matrix Spike Dup (2330052-MSD1)				**Source: E307136-01**					Prepared: 07/25/23 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.

Definitions and Notes

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com #201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only: Lab WO# E307136 | Job Number 23052-1001

TAT: 1D | 2D | 3D | Standard (x)

EPA Program: CWA | SDWA | RCRA

State: NM (x) | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	GDOC TX	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		
8:55	7/21/2023	Soil	1 Jar	SS03 - 0'	3	x		
9:00	7/21/2023	Soil	1 Jar	SS04 - 0'	4	x		
9:05	7/21/2023	Soil	1 Jar	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		

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7-24-23	11:30		7.24.23	1136
	7.24.23	1537		7.24.23	1630
	7.24.23	2215		7/25/23	8:15

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 7/25/2023 8:44:51AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	07/25/23 08:15	Work Order ID:	E307136
Phone:	(972) 371-5200	Date Logged In:	07/25/23 08:39	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	07/31/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Comments/Resolution

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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.

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
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.

Sample Data

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	8/10/2023 10:32:24AM

SS07 - 0'

E308036-01

Analyte	Result	Reporting 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	
o-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		*100 %*	*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		*83.6 %*	*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		*93.4 %*	*50-200*	*08/08/23*	*08/08/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332014
Chloride	**1900**	200	10	08/07/23	08/08/23	

Sample Data

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	8/10/2023 10:32:24AM

BH03 - 0'

E308036-02

Analyte	Result	Reporting 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	
o-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

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	8/10/2023 10:32:24AM

BH03 - 1'

E308036-03

Analyte	Result	Reporting 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	
o-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		*98.4 %*	*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		*83.9 %*	*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		*131 %*	*50-200*	*08/08/23*	*08/08/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332014
Chloride	**409**	200	10	08/07/23	08/08/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/10/2023 10:32:24AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332010-BLK1)									Prepared: 08/07/23 Analyzed: 08/07/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*8.08*		*8.00*		*101*	*70-130*			
LCS (2332010-BS1)									Prepared: 08/07/23 Analyzed: 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	0.0500	10.0		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.95*		*8.00*		*99.4*	*70-130*			
Matrix Spike (2332010-MS1)				**Source: E308033-01**					Prepared: 08/07/23 Analyzed: 08/07/23
Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.7*	*70-130*			
Matrix Spike Dup (2332010-MSD1)				**Source: E308033-01**					Prepared: 08/07/23 Analyzed: 08/08/23
Benzene	4.74	0.0250	5.00	ND	94.7	54-133	1.75	20	
Ethylbenzene	4.58	0.0250	5.00	ND	91.7	61-133	2.03	20	
Toluene	4.75	0.0250	5.00	ND	95.0	61-130	1.88	20	
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131	2.03	20	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131	2.00	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.9	63-131	2.01	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.83*		*8.00*		*97.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/10/2023 10:32:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332010-BLK1)									Prepared: 08/07/23 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: 08/07/23 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: 08/07/23 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: 08/07/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/10/2023 10:32:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332039-BLK1)									Prepared: 08/08/23 Analyzed: 08/08/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.6*		*50.0*		*99.1*	*50-200*			
LCS (2332039-BS1)									Prepared: 08/08/23 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: E308036-03**					Prepared: 08/08/23 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: E308036-03**					Prepared: 08/08/23 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.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/10/2023 10:32:24AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332014-BLK1)									Prepared: 08/07/23 Analyzed: 08/07/23
Chloride	ND	20.0							
LCS (2332014-BS1)									Prepared: 08/07/23 Analyzed: 08/08/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2332014-MS1)				**Source: E308028-01**					Prepared: 08/07/23 Analyzed: 08/08/23
Chloride	336	20.0	250	ND	135	80-120			M2
Matrix Spike Dup (2332014-MSD1)				**Source: E308028-01**					Prepared: 08/07/23 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.

Definitions and Notes

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 | Chain of Custody | Page 1 of 1

Client: Matador Production Company.	
Project: Barry Miller State Com #201H	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention: Matador Production Company
Address: on file
City, State, Zip:
Phone: (337)319-8398
Email: clinton.talley@matadorresources.com

Lab Use Only

Lab WO#	Job Number
E308036	23052-0001

TAT

1D	2D	3D	Standard
			x

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:58	8/3/2023	Soil	1 Jar	SS07 - 0'	1						x		
9:57	8/3/2023	Soil	1 Jar	BH03 - 0'	2						x		
9:59	8/3/2023	Soil	1 Jar	BH03 - 1'	3						x		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@ensolum.com Please see remarks.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8-4-23	11:36		8-4-23	11:36
	8-4-23	1715		8.4.23	1730
	8.4.23	2345		8.7.23	7:45

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

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

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

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

Envirotech Analytical Laboratory

Printed: 8/7/2023 3:10:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	08/07/23 07:45	Work Order ID:	E308036
Phone:	(972) 371-5200	Date Logged In:	08/04/23 16:43	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	08/11/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

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

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07A - 0'	E308239-01A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
SS07B - 0'	E308239-02A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.

Sample Data

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	9/6/2023 7:16:07AM

SS07A - 0'

E308239-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	
o-Xylene	ND	0.0250	1	08/31/23	09/02/23	
p,m-Xylene	ND	0.0500	1	08/31/23	09/02/23	
Total 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	Analyst: 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	Analyst: 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	Analyst: BA			Batch: 2335093
Chloride	**199**	20.0	1	08/31/23	09/01/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/6/2023 7:16:07AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2335080-BLK1)									Prepared: 08/31/23 Analyzed: 08/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2335080-BS1)									Prepared: 08/31/23 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: 08/31/23 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			
o-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: 08/31/23 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	
o-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	
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.2*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/6/2023 7:16:07AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2335080-BLK1)									Prepared: 08/31/23 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: 08/31/23 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: 08/31/23 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: 08/31/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/6/2023 7:16:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2335096-BLK1)									Prepared: 09/01/23 Analyzed: 09/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.0*		*50.0*		*94.1*	*50-200*			
LCS (2335096-BS1)									Prepared: 09/01/23 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: E308231-23**					Prepared: 09/01/23 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: E308231-23**					Prepared: 09/01/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/6/2023 7:16:07AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2335093-BLK1)									Prepared: 08/31/23 Analyzed: 09/01/23
Chloride	ND	20.0							
LCS (2335093-BS1)									Prepared: 08/31/23 Analyzed: 09/01/23
Chloride	242	20.0	250		96.9	90-110			
Matrix Spike (2335093-MS1)				**Source: E308235-21**					Prepared: 08/31/23 Analyzed: 09/01/23
Chloride	521	20.0	250	318	81.1	80-120			
Matrix Spike Dup (2335093-MSD1)				**Source: E308235-21**					Prepared: 08/31/23 Analyzed: 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.

Definitions and Notes

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company.	
Project: Barry Miller State Com 201H	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention: Matador Production Company	
Address: on file	
City, State, Zip:	
Phone: (337)319-8398	
Email: clinton.talley@matadorresources.com	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E308239	23052.0001				x		
							RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
9:35	8/30/2023	Soil	1 Jar	SS07A - 0'	1								X				
9:37	8/30/2023	Soil	1 Jar	SS07B - 0'	2								X				Do not run unless SS07A - 0' is >100 TPH or 600 Cl

Analysis and Method

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8-30-23	11:24	[signature]	8-30-23	1124
[signature]	8-31-23	1715	[signature] MUSSO	8.31.23	2000
[signature] MUSSO	9.1.23	0245	[signature]	9/1/23	5:45

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/1/2023 10:41:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	09/01/23 05:45	Work Order ID:	E308239
Phone:	(972) 371-5200	Date Logged In:	08/31/23 14:41	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/07/23 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Comments/Resolution

Remarks on COC: Do not run unless SS07A-0 is >100 TPH or 600 Cl.

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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

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

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ljarboe@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

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

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0.5'	E310300-01A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
SW02 - 0.5'	E310300-02A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS02 - 01'	E310300-03A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS07 - 1'	E310300-04A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS08 - 1'	E310300-05A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS09 - 1'	E310300-06A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS10 - 1'	E310300-07A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS11 - 1'	E310300-08A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS14 - 1'	E310300-09A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS15 - 1'	E310300-10A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.

Sample Data

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	11/6/2023 2:26:04PM

SW01 - 0.5'

E310300-01

Analyte	Result	Reporting Limit	Dilution	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	
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	
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	Analyst: 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	Analyst: KM			Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil 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	Analyst: BA			Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	

Sample Data

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	11/6/2023 2:26:04PM

SW02 - 0.5'

E310300-02

Analyte	Result	Reporting Limit	Dilution	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	
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	
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	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	Analyst: KM			Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil 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	Analyst: BA			Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	

envirotech Inc.

Sample Data

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	11/6/2023 2:26:04PM

FS02 - 01'

E310300-03

Analyte	Result	Reporting Limit	Dilution	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	
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	
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	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		*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	
Oil 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	Analyst: BA			Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	

Sample Data

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	11/6/2023 2:26:04PM

FS07 - 1'

E310300-04

Analyte	Result	Reporting Limit	Dilution	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	
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	
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	
Oil 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	

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Sample Data

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	11/6/2023 2:26:04PM

FS08 - 1'

E310300-05

Analyte	Result	Reporting Limit	Dilution	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	
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	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		*114 %*	*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		*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		*114 %*	*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		*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
Surrogate: n-Nonane		*82.0 %*	*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	

envirotech Inc.

Sample Data

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	11/6/2023 2:26:04PM

FS09 - 1'

E310300-06

Analyte	Result	Reporting Limit	Dilution	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	
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	
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	
Oil 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	

envirotech Inc.

Sample Data

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	11/6/2023 2:26:04PM

FS10 - 1'

E310300-07

Analyte	Result	Reporting Limit	Dilution	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	
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	
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*	
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	
Oil 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

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	11/6/2023 2:26:04PM

FS11 - 1'

E310300-08

Analyte	Result	Reporting Limit	Dilution	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	
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	
Total 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	
Oil 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	

envirotech Inc.

Sample Data

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	11/6/2023 2:26:04PM

FS14 - 1'

E310300-09

Analyte	Result	Reporting Limit	Dilution	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	
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	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		*114 %*	*70-130*	*10/31/23*	*11/02/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*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		*114 %*	*70-130*	*10/31/23*	*11/02/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
Surrogate: n-Nonane		*88.3 %*	*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

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	11/6/2023 2:26:04PM

FS15 - 1'

E310300-10

Analyte	Result	Reporting Limit	Dilution	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	
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	
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		*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	
Oil 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	

envirotech Inc.

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/6/2023 2:26:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344030-BLK1)									Prepared: 10/31/23 Analyzed: 11/02/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.580*		*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: 10/31/23 Analyzed: 11/02/23
Benzene	2.70	0.0250	2.50		108	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	*0.573*		*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: E310292-01**					Prepared: 10/31/23 Analyzed: 11/02/23
Benzene	2.77	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135			
Toluene	2.69	0.0250	2.50	ND	108	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.04	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	*0.595*		*0.500*		*119*	*70-130*			
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: E310292-01**					Prepared: 10/31/23 Analyzed: 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	
o-Xylene	2.61	0.0250	2.50	ND	104	43-135	2.59	27	
p,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	
Surrogate: Bromofluorobenzene	*0.589*		*0.500*		*118*	*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*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/6/2023 2:26:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344030-BLK1)									Prepared: 10/31/23 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: 10/31/23 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: E310292-01**					Prepared: 10/31/23 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: E310292-01**					Prepared: 10/31/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/6/2023 2:26:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344070-BLK1)									Prepared: 11/02/23 Analyzed: 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: 11/02/23 Analyzed: 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: E310300-08**					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: 11/02/23 Analyzed: 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/6/2023 2:26:04PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344100-BLK1)									Prepared: 11/03/23 Analyzed: 11/04/23
Chloride	ND	20.0							
LCS (2344100-BS1)									Prepared: 11/03/23 Analyzed: 11/04/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2344100-MS1)				**Source: E310300-03**					Prepared: 11/03/23 Analyzed: 11/04/23
Chloride	531	400	250	ND	213	80-120			M5
Matrix Spike Dup (2344100-MSD1)				**Source: E310300-03**					Prepared: 11/03/23 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.

Definitions and Notes

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com #201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E310300	23052-0001				x		
							RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:06	10/27/2023	Soil	1 Jar	SW01 - 0.5'	1						X		
12:56	10/27/2023	Soil	1 Jar	SW02 - 0.5'	2						X		
13:55	10/27/2023	Soil	1 Jar	FS02 - 1'	3						X		
13:44	10/27/2023	Soil	1 Jar	FS07 - 1'	4						X		
13:43	10/27/2023	Soil	1 Jar	FS08 - 1'	5						X		
13:42	10/27/2023	Soil	1 Jar	Fs09 - 1'	6						X		
13:38	10/27/2023	Soil	1 Jar	FS10 - 1'	7						X		
13:28	10/27/2023	Soil	1 Jar	FS11 - 1'	8						X		
13:30	10/27/2023	Soil	1 Jar	FS14 - 1'	9						X		
13:26	10/27/2023	Soil	1 Jar	Fs15 - 1'	10						X		

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-30-23	7:20	Michelle Leigh	10.30.23	0720
Michelle Leigh	10-30-23	1615		10/30/23	16:50
	10/30/23	22:30	Kacey Rees	10/31/23	8:15

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 10/31/2023 8:59:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	10/31/23 08:15	Work Order ID:	E310300
Phone:	(972) 371-5200	Date Logged In:	10/31/23 08:33	Logged In By:	Lacey Rodgers
Email:	agiovngo@ensolum.com	Due Date:	11/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Comments/Resolution

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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

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

Alexa Michaels
Sample Custody Officer
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labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Matador Resources, LLC.	Project Name:	Barry Miller State 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
FS01 - 1.5'	E310306-01A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS03 - 1.5'	E310306-02A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS04 - 1.5'	E310306-03A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS05 - 1.5'	E310306-04A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS06 - 1.5'	E310306-05A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS12 - 1'	E310306-06A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS13 - 1'	E310306-07A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW03 - 0.5'	E310306-08A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW04 - 0.5'	E310306-09A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS20 - 1'	E310306-10A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS21 - 1'	E310306-11A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW08 - 0.5'	E310306-12A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS16 - 1'	E310306-13A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS17 - 1'	E310306-14A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS18 - 1'	E310306-15A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS19 - 1'	E310306-16A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS24 - 1'	E310306-17A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS25 - 1.5'	E310306-18A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS26 - 1'	E310306-19A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS27 - 1'	E310306-20A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS28 - 1'	E310306-21A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS29 - 1'	E310306-22A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS30 - 1'	E310306-23A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS31 - 1'	E310306-24A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS22 - 1'	E310306-25A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS23 - 2.5'	E310306-26A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.

Sample Data

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	11/7/2023 3:12:43PM

FS01 - 1.5'

E310306-01

Analyte	Result	Reporting 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		*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	
Oil 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

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	11/7/2023 3:12:43PM

FS03 - 1.5'

E310306-02

Analyte	Result	Reporting 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		*94.2 %*	*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		*95.7 %*	*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	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		*90.5 %*	*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

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	11/7/2023 3:12:43PM

FS04 - 1.5'

E310306-03

Analyte	Result	Reporting 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		*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	
Surrogate: 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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: 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

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	11/7/2023 3:12:43PM

FS05 - 1.5'

E310306-04

Analyte	Result	Reporting 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		*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	
Surrogate: 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	Analyst: KM			Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: 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	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS06 - 1.5'

E310306-05

Analyte	Result	Reporting 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		*94.3 %*	*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		*94.5 %*	*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	
Oil 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	Analyst: BA			Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS12 - 1'

E310306-06

Analyte	Result	Reporting 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		*92.9 %*	*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		*94.8 %*	*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	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		*82.7 %*	*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

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	11/7/2023 3:12:43PM

FS13 - 1'

E310306-07

Analyte	Result	Reporting 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		*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	
Oil 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

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	11/7/2023 3:12:43PM

SW03 - 0.5'

E310306-08

Analyte	Result	Reporting 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		*96.3 %*	*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		*92.3 %*	*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	
Oil 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	Analyst: BA			Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

SW04 - 0.5'

E310306-09

Analyte	Result	Reporting 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		*96.0 %*	*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		*91.8 %*	*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		*86.7 %*	*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

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	11/7/2023 3:12:43PM

FS20 - 1'

E310306-10

Analyte	Result	Reporting 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		*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

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	11/7/2023 3:12:43PM

FS21 - 1'

E310306-11

Analyte	Result	Reporting 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		*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	Analyst: BA			Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

SW08 - 0.5'

E310306-12

Analyte	Result	Reporting 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		*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	Analyst: BA			Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS16 - 1'

E310306-13

Analyte	Result	Reporting 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		*97.2 %*	*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	Analyst: BA			Batch: 2344117
Chloride	**207**	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS17 - 1'

E310306-14

Analyte	Result	Reporting 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		*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: 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

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	11/7/2023 3:12:43PM

FS18 - 1'

E310306-15

Analyte	Result	Reporting 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		*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	
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	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: 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

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	11/7/2023 3:12:43PM

FS19 - 1'

E310306-16

Analyte	Result	Reporting 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		*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	
Oil 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

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	11/7/2023 3:12:43PM

FS24 - 1'

E310306-17

Analyte	Result	Reporting 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		*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	
Oil 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

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	11/7/2023 3:12:43PM

FS25 - 1.5'

E310306-18

Analyte	Result	Reporting 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		*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	
Oil 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

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	11/7/2023 3:12:43PM

FS26 - 1'

E310306-19

Analyte	Result	Reporting 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	
Oil 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

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	11/7/2023 3:12:43PM

FS27 - 1'

E310306-20

Analyte	Result	Reporting 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		*91.7 %*	*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	
Oil 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

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	11/7/2023 3:12:43PM

FS28 - 1'

E310306-21

Analyte	Result	Reporting Limit	Dilution	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	
o-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	
Oil 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: 2344118
Chloride	ND	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS29 - 1'

E310306-22

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	
Oil 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

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	11/7/2023 3:12:43PM

FS30 - 1'

E310306-23

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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

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	11/7/2023 3:12:43PM

FS31 - 1'

E310306-24

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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		*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	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		*82.4 %*	*50-200*	*11/03/23*	*11/04/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2344118
Chloride	**466**	200	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS22 - 1'

E310306-25

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	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	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		*86.3 %*	*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	10	11/04/23	11/06/23	

Sample Data

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	11/7/2023 3:12:43PM

FS23 - 2.5'

E310306-26

Analyte	Result	Reporting Limit	Dilution	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	
o-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		*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	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	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		*86.6 %*	*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	10	11/04/23	11/06/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344042-BLK1)									Prepared: 11/01/23 Analyzed: 11/02/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.523*		*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-BS1)									Prepared: 11/01/23 Analyzed: 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			
o-Xylene	2.38	0.0250	2.50		95.4	70-130			
p,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: E310305-23**					Prepared: 11/01/23 Analyzed: 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			
p,m-Xylene	4.60	0.0500	5.00	ND	91.9	43-135			
Total 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: E310305-23**					Prepared: 11/01/23 Analyzed: 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	
Toluene	2.33	0.0250	2.50	ND	93.1	48-130	0.885	24	
o-Xylene	2.38	0.0250	2.50	ND	95.4	43-135	1.18	27	
p,m-Xylene	4.68	0.0500	5.00	ND	93.5	43-135	1.76	27	
Total Xylenes	7.06	0.0250	7.50	ND	94.2	43-135	1.56	27	
Surrogate: Bromofluorobenzene	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.491*		*0.500*		*98.2*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344046-BLK1)									Prepared: 11/01/23 Analyzed: 11/03/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.1*	*70-130*			
LCS (2344046-BS1)									Prepared: 11/01/23 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			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.59*		*8.00*		*94.8*	*70-130*			
Matrix Spike (2344046-MS1)				**Source: E310306-02**					Prepared: 11/01/23 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			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,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: 11/01/23 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	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.10	20	
p,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	
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	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	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344042-BLK1)									Prepared: 11/01/23 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: 11/01/23 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: 11/01/23 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: 11/01/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	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	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344046-BLK1)									Prepared: 11/01/23 Analyzed: 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: 11/01/23 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: E310306-02**					Prepared: 11/01/23 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: 11/01/23 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344086-BLK1)									Prepared: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344092-BLK1)									Prepared: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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: 11/03/23 Analyzed: 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
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: E310306-09**					Prepared: 11/04/23 Analyzed: 11/06/23
Chloride	293	200	250	ND	117	80-120			
Matrix Spike Dup (2344117-MSD1)				**Source: E310306-09**					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.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/7/2023 3:12:43PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344118-BLK1)									Prepared: 11/04/23 Analyzed: 11/06/23
Chloride	ND	20.0							
LCS (2344118-BS1)									Prepared: 11/04/23 Analyzed: 11/06/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2344118-MS1)				**Source: E310306-26**					Prepared: 11/04/23 Analyzed: 11/06/23
Chloride	363	200	250	593	NR	80-120			M2
Matrix Spike Dup (2344118-MSD1)				**Source: E310306-26**					Prepared: 11/04/23 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.

Definitions and Notes

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.

Project Information | Chain of Custody | Page 1 of 3

Client: Matador Production Company.	
Project: Barry Miller State Com 201H	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention: Matador Production Company	
Address: on file	
City, State, Zip:	
Phone: (337)319-8398	
Email: clinton.talley@matadorresources.com	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E310306	23052-0001				x		
							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State NM	State CO	State UT	State AZ	State TX	Remarks
9:53	10/30/2023	Soil	1 Jar	FS01 - 1.5'	1						X							
9:07	10/30/2023	Soil	1 Jar	FS03 - 1.5'	2						X							
9:09	10/30/2023	Soil	1 Jar	FS04 - 1.5'	3						X							
9:18	10/30/2023	Soil	1 Jar	FS05 - 1.5'	4						X							
:19	10/30/2023	Soil	1 Jar	FS06 - 1.5'	5						X							
:19	10/30/2023	Soil	1 Jar	FS12 - 1'	6						X							
: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'	9						X							
10:55	10/30/2023	Soil	1 Jar	FS20 - 1'	10						X							

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Hulse	10/31/23	0700	Michelle Gomez	10-31-23	1100
Michelle Gomez	10-31-23	1545	Andrew Nelson	10.31.23	1730
Andrew Nelson	10.31.23	2400	Lacey Rose	11/1/23	8:30

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

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

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

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

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Project Information | Chain of Custody | Page 2 of 3

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com 201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E310306	23052-0001				x		

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:57	10/30/2023	Soil	1 Jar	FS21 - 1'	11						X		
11:12	10/30/2023	Soil	1 Jar	SW08 - 0.5'	12						X		
10:46	10/30/2023	Soil	1 Jar	FS16 - 1'	13						X		
11:41	10/30/2023	Soil	1 Jar	FS17 - 1'	14						X		
0:48	10/30/2023	Soil	1 Jar	FS18 - 1'	15						X		
0:49	10/30/2023	Soil	1 Jar	FS19 - 1'	16						X		
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		

State: NM x | CO | UT | AZ | TX | RCRA

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/31/23	0700	Michelle Gonzales	10/31/23	1100
Michelle Gonzales	10/31/23	1545		10.31.23	1730
	10.31.23	2400		11/1/23	8:30

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

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____
Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

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Project Information | Chain of Custody | Page 3 of 3

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com 201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only	
Lab WO#	Job Number
E310306	23052-0001

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			x		

RCRA

State: NM x | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:46	10/30/2023	Soil	1 Jar	FS28 - 1'	21						X		
11:56	10/30/2023	Soil	1 Jar	FS29 - 1'	22						X		
12:00	10/30/2023	Soil	1 Jar	FS30 - 1'	23						X		
13:31	10/30/2023	Soil	1 Jar	FS31 - 1'	24						X		
3:34	10/30/2023	Soil	1 Jar	FS22 - 1'	25						X		
4:16	10/30/2023	Soil	1 Jar	FS23 - 2.5'	26						X		
											X		
											X		
											X		
											X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Cole Burton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/31/23	0700		10-31-23	1100
	10-31-23	1545		10.31.23	1730
	10.31.23	2400		11.1.23	8:30

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/1/2023 12:05:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	10/30/23 08:30	Work Order ID:	E310306
Phone:	(972) 371-5200	Date Logged In:	10/31/23 14:53	Logged In By:	Lacey Rodgers
Email:	agiovngo@ensolum.com	Due Date:	11/03/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	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

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

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

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Southern New Mexico Area

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ljarboe@envirotech-inc.com

Michelle Golzales
Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

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

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS32 - 1.5'	E311019-01A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS33 - 1.5'	E311019-02A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS34 - 1'	E311019-03A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS35 - 1'	E311019-04A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS36 - 1'	E311019-05A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS37 - 1'	E311019-06A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS38 - 1'	E311019-07A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS39 - 1'	E311019-08A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS40 - 1'	E311019-09A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS41 - 1'	E311019-10A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS42 - 1'	E311019-11A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS43 - 1'	E311019-12A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW05 - 0.5'	E311019-13A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW06 - 0.5'	E311019-14A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW07 - 0.5'	E311019-15A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.

Sample Data

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	11/8/2023 1:18:32PM

FS32 - 1.5'

E311019-01

Analyte	Result	Reporting 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	
o-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		*93.7 %*	*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		*98.0 %*	*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

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	11/8/2023 1:18:32PM

FS33 - 1.5'

E311019-02

Analyte	Result	Reporting 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	
o-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		*91.2 %*	*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	
Oil 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

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	11/8/2023 1:18:32PM

FS34 - 1'

E311019-03

Analyte	Result	Reporting 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	
o-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

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	11/8/2023 1:18:32PM

FS35 - 1'

E311019-04

Analyte	Result	Reporting 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	
o-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		*91.5 %*	*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		*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	
Oil 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	Analyst: BA			Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

Sample Data

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	11/8/2023 1:18:32PM

FS36 - 1'

E311019-05

Analyte	Result	Reporting 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	
o-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

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	11/8/2023 1:18:32PM

FS37 - 1'

E311019-06

Analyte	Result	Reporting 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	
o-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		*91.6 %*	*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	
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	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		*96.6 %*	*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

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	11/8/2023 1:18:32PM

FS38 - 1'

E311019-07

Analyte	Result	Reporting 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	
o-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		*91.3 %*	*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		*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: 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

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	11/8/2023 1:18:32PM

FS39 - 1'

E311019-08

Analyte	Result	Reporting 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	
o-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		*91.9 %*	*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		*96.8 %*	*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

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	11/8/2023 1:18:32PM

FS40 - 1'

E311019-09

Analyte	Result	Reporting 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	
o-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	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		*90.8 %*	*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	Analyst: BA			Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

Sample Data

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	11/8/2023 1:18:32PM

FS41 - 1'

E311019-10

Analyte	Result	Reporting 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	
o-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		*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	
Oil 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	Analyst: BA			Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

Sample Data

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	11/8/2023 1:18:32PM

FS42 - 1'

E311019-11

Analyte	Result	Reporting 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	
o-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		*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	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

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	11/8/2023 1:18:32PM

FS43 - 1'

E311019-12

Analyte	Result	Reporting 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	
o-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		*94.8 %*	*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		*98.0 %*	*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

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	11/8/2023 1:18:32PM

SW05 - 0.5'

E311019-13

Analyte	Result	Reporting 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	
o-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		*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	
Oil 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	Analyst: BA			Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	

Sample Data

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	11/8/2023 1:18:32PM

SW06 - 0.5'

E311019-14

Analyte	Result	Reporting 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	
o-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		*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: 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

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	11/8/2023 1:18:32PM

SW07 - 0.5'

E311019-15

Analyte	Result	Reporting 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	
o-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		*96.9 %*	*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	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
Surrogate: n-Nonane		*105 %*	*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	

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/8/2023 1:18:32PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344071-BLK1)									Prepared: 11/02/23 Analyzed: 11/05/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2344071-BS1)									Prepared: 11/02/23 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			
o-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: 11/02/23 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			
o-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: 11/02/23 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	
o-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	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.8*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/8/2023 1:18:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344071-BLK1)									Prepared: 11/02/23 Analyzed: 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: 11/02/23 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: 11/02/23 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: 11/02/23 Analyzed: 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

Matador Resources, LLC.	Project Name:	Barry Miller State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/8/2023 1:18:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2344122-BLK1)									Prepared: 11/04/23 Analyzed: 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: 11/04/23 Analyzed: 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: 11/04/23 Analyzed: 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: 11/04/23 Analyzed: 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 State Com #201H	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/8/2023 1:18:32PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345013-BLK1)									Prepared: 11/06/23 Analyzed: 11/07/23
Chloride	ND	20.0							
LCS (2345013-BS1)									Prepared: 11/06/23 Analyzed: 11/07/23
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2345013-MS1)				**Source: E311019-05**					Prepared: 11/06/23 Analyzed: 11/08/23
Chloride	277	200	250	ND	111	80-120			
Matrix Spike Dup (2345013-MSD1)				**Source: E311019-05**					Prepared: 11/06/23 Analyzed: 11/07/23
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.

Definitions and Notes

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

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

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

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

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com 201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E311019	23052.0001				x		
							RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
12:02	10/31/2023	Soil	1 Jar	FS32 - 1.5'	1								x				
12:03	10/31/2023	Soil	1 Jar	FS33 - 1.5'	2								x				
8:50	10/31/2023	Soil	1 Jar	FS34 - 1'	3								x				
11:57	10/31/2023	Soil	1 Jar	FS35 - 1'	4								x				
8:56	10/31/2023	Soil	1 Jar	FS36 - 1'	5								x				
8:58	10/31/2023	Soil	1 Jar	FS37 - 1'	6								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'	10								x				

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ethan Haft & Cole Burton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/1/23	0700		11-1-23	1040
	11-1-23	1530		11.1.23	1730
	11.1.23	2300		11.2.23	8:15

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

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

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

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

envirotech

Project Information | Chain of Custody | Page 2 of 2

Client: Matador Production Company.	**Bill To**
Project: Barry Miller State Com 201H	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO# E31019	Job Number 23052.0001	1D	2D	3D	Standard	CWA	SDWA
					x		

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
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		

Additional Instructions: **Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ethan Haft & Cole Burton

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Haft	11/1/23	0700	Michelle Garcia	11-01-23	1040
Michelle Garcia	11-1-23	1530	Andrew Musso	11.1.23	1730
Andrew Musso	11.1.23	2300	Cath Mar	11.2.23	8:15

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/2/2023 11:05:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	11/02/23 08:15	Work Order ID:	E311019
Phone:	(972) 371-5200	Date Logged In:	11/01/23 17:14	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	11/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the 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 field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab 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	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

ENSOLUM

APPENDIX G

Regulatory Correspondence

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

[**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 <OCD.Enviro@emnrd.nm.gov>; Spills@slo.state.nm.us

Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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:	Cole Burton; Chad Hamilton; Ethan Haft; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD
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

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

<chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>
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
To:	Ashley Giovengo; spills@slo.state.nm.us; clinton.talley@matadorresources.com; Hamlet, Robert, EMNRD; 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 | scott.rodgers@emnrd.nm.gov
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)

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

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,

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

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

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

CONDITIONS

Action 286960

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 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