E N S O L U M

October 27, 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 Margarita 13 Federal Com #005H Incident Number nAPP2306635043 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Margarita 13 Federal Com #005H (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2306635043.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 13, Township 21 South, Range 32 East, in Lea County, New Mexico (32.4816612°, -103.6253408°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 1, 2023, a pipe connection on a temporary flowline from the minion tank failed, resulting in the release of approximately 21 barrels (bbls) of produced water onto the pad. Advance Energy Partners Hat Mesa LLC (Advance) reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 7, 2023, and submitted a Release Notification Form C-141 (Form C-141) on March 7, 2023. The release was assigned Incident Number nAPP2306635043 (Appendix A). Following the release, Matador acquired the Site from Advance and all remediation efforts and soil sampling activities were completed on behalf of Matador.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Margarita 13 Federal Com #005H

ENSOLUM

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP 01877 POD1, located approximately 0.29 miles northwest of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 feet bgs. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a wetland area, located approximately 1,737 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On August 4, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected around the release extent at a depth of approximately 0 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for chloride utilizing the MOHR titration method. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix C.

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

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On August 24, 2023, Ensolum personnel were at the Site to oversee vertical delineation activities. Boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release. Borehole (BH01) was advanced to a depth of 0.5 feet bgs and borehole BH02 was advanced to a depth of 2 feet bgs. Borehole (BH01) hit refusal at a depth of 0.5 feet bgs due to a layer of indurated

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caliche. Delineation soil samples were collected from each borehole at depths ranging from 0 feet to 2 feet bgs. Soil from the delineation boreholes were field screened for chloride utilizing the MOHR titration method. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix D. The potholes and delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for all delineation soil samples indicated all COC concentrations were compliant with the Closure Criteria; however, laboratory analytical results for delineation soil samples BH01 and BH02 at 0-foot bgs indicated the chloride concentrations exceeded the reclamation requirement. While these two soil samples are on pad in an active production area, the proximity of the soil to the pasture and the ability to access the soil for reclaiming was taken into consideration. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix E.

Starting on September 28, 2023, waste-containing soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for delineation soil samples. Excavation activities were performed using a backhoe and belly dump trucks. The excavation occurred on the well pad near a transfer poly line. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride utilizing a PetroFLAG[®] and Hach[®] chloride QuanTab[®] test strips, respectively.

Following removal of waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS21 were collected from the floor of the excavation at depths ranging from 2 feet to 2.5 feet bgs. Composite soil samples SW01 and SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 3,723 square feet. A total of approximately 350 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor soil samples (FS01 through FS17), (FS19 through FS21) and for sidewall soil samples (SW01 through SW04) indicated all COC concentrations were compliant with the Site Closure Criteria and with the reclamation requirement. Excavation floor sample FS18 exceeded the reclamation requirement for chloride at 2 feet bgs, however it was well below the Site Closure Criteria. Laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 2023 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Additionally, laboratory analytical results indicated that COC concentrations for excavation soil samples (FS01 through FS17), (FS19 through FS21) and sidewall soil samples (SW01 through SW04) were all in compliance with the reclamation requirement. Excavation floor sample, FS18 exceeded the

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reclamation requirement for chloride at 2 feet bgs, however it was below the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Matador will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 105 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2306635043.

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, PG Senior Managing Geologist

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1
 Soil Sample Analytical Results (Delineation Soil Samples)
- Table 2
 Soil Sample Analytical Results (Excavation Soil Samples)
- Table 3
 Soil Sample Analytical Results (Sidewall Soil Samples)
- Appendix A Form C-141
- Appendix B Referenced Well Records
- Appendix C Photographic Log
- Appendix D Lithologic / Soil Sampling Logs
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Notifications



FIGURES

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TABLES

E N S O L U M

| | TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Margarita Federal 13 Com #005H Matador Production Company Eddy County, New Mexico | | | | | | | | | |
|-----------------------|--|---------------------|----------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|
| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Table I | Closure Criteria (| (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| | | · | | Deli | neation Soil Sam | ples | | · | | |
| SS01 | 08/04/2023 | 0 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 175 |
| SS02 | 08/04/2023 | 0 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 42.3 |
| SS03 | 08/04/2023 | 0 | <0.025 | <0.025 | <20.0 | 26.0 | <50.0 | <20.0 | 26.0 | 463 |
| SS04 | 08/04/2023 | θ | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 176 |
| BH01 | 08/04/2023 | θ | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 9,990 |
| BH02 | 08/04/2023 | θ | <0.025 | <0.025 | <u><20.0</u> | <u><25.0</u> | <50.0 | <u><20.0</u> | <u><20.0</u> | 11,400 |
| BH02 | 08/24/2023 | 4 | <0.025 | <0.025 | <u><20.0</u> | <u><25.0</u> | <50.0 | <u><20.0</u> | <u><20.0</u> | 585 |
| BH02 | 08/24/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 20.5 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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| | | | | Margarit Matado | TABLE 2 LE ANALYTICA ta Federal 13 Color or Production Color county, New Mage | m #005H ompany | | | | |
|-----------------------|------------------|---------------------|--------------------|-----------------------|---|--------------------|--------------------|--------------------|----------------------|---------------------|
| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Table I | Closure Criteria | (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| - | | | | Exca | avation Soil Sam | ples | | I | | |
| FS01 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 305 |
| FS02 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 346 |
| FS03 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 447 |
| FS04 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 350 |
| FS05 | 10/18/2023 | 3 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 545 |
| FS06 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 185 |
| FS07 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | 26.0 | 255 |
| FS08 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 170 |
| FS09 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 313 |
| FS10 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 336 |
| FS11 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 357 |
| FS12 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 225 |
| FS13 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 237 |
| FS14 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 225 |
| FS15 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 225 |
| FS16 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 344 |
| FS17 | 10/18/2023 | 2.5 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 156 |
| FS18 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 666 |
| FS19 | 10/18/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 371 |
| FS20 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 242 |
| FS21 | 10/17/2023 | 2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 341 |

Notes:

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NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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

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GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

E N S O L U M

| TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS Margarita Federal 13 Com #005H Matador Production Company Eddy County, New Mexico | | | | | | | | | | |
|--|--|-----------------|--------|--------|------------------|-------|-------|-------|-------|--------|
| Sample Designation | | | | | | | | | | |
| NMOCD Table I | Closure Criteria (| (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| | | ` | | Sic | dewall Soil Samp | les | · | | | |
| SW01 | 10/17/2023 | 0-2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 169 |
| SW02 | 10/17/2023 | 0-2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 144 |
| SW03 | SW03 10/17/2023 0-2 <0.025 <20.0 26.0 <50.0 <20.0 26.0 189 | | | | | | | | 189 | |
| SW04 | 10/18/2023 | 0-2 | <0.025 | <0.025 | <20.0 | <25.0 | <50.0 | <20.0 | <20.0 | 46.9 |

Notes:

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"<": Laboratory Analytical result is less than reporting limit

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

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GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

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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 | nAPP2306635043 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: Advance Energy Partners Hat Mesa LLC | OGRID: 372417 |
|---|--|
| Contact Name: Andrew Parker | Contact Telephone: 832-672-4700 (office) |
| Contact email: aparker@ameredev.com | Incident # nAPP2306635043 |
| Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077 | |

Location of Release Source

Latitude 32.4816612_

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name Margarita 5H 20230301-1600-completions | Site Type Production Site |
|--|--|
| Date Release Discovered 03/01/2023 | API# (<i>if applicable</i>) 30-025-47199 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| G | 13 | 21S | 32E | Lea |

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) 21 | Volume Recovered (bbls) 0 |
| | 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 Pipe c | onnection on temporary flowline along outlet from mini | ion tank failed. |
| | | |
| | | |

| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? |
|--|---|
| 19.10.29.7 (11) 14.11 10.1 | |
| 🗌 Yes 🖾 No | |
| | |
| | |
| | |
| If YES, was immediate ne | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| | |
| | |

Initial Response

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

 \square 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 <u>not</u> been undertaken, explain why:

Free liquids infiltrated into subsurface.

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

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

| Printed Name: <u>Andrew Parker</u> | Title: <u>Env. Scientist</u> |
|---|------------------------------|
| Signature: | Date: _03/07/2023 |
| email: <u>aparker@ameredev.com</u> Telephone: | 970-570-9535 |
| | |
| OCD Only | |
| Received by: Jocelyn Harimon D | Date:03/08/2023 |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>>55</u> (ft bgs) |
|---|------------------------|
| Did this release impact groundwater or surface water? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🗌 Yes 🛛 No |
| Did the release impact areas 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

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

| eceived by OCD: 10/22 | 7/2023 9:46:57 PM State of New Mexico | ` | | Page 17 of 1 |
|---|--|---|---|--|
| | | | Incident ID | nAPP2306635043 |
| age 4 | Oil Conservation Divisi | ion | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| public health or the envir failed to adequately invest | t. Tallsy | the OCD does not relieve the a threat to groundwater, surfa | e operator of liability sh ace water, human health liance with any other fe | ould their operations have or the environment. In |
| OCD Only Received by: <u>Shelly V</u> | Vells | Date: <u>10/30</u> | /2023 | |

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Oil Conservation Division

| | Page 18 of 100 |
|----------------|----------------|
| Incident ID | nAPP2306635043 |
| 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. ______Title: EHS Supervisor Printed Name: Clint Tallev Signature: <u>Clint Talley</u> Date: <u>08/29/2023</u> email: Clinton.talley@matadorresorces.com Telephone: 337-319-8398 **OCD Only** Received by: <u>Shelly Wells</u> Date: <u>10/30/2023</u> 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:



APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| N | OSE POD NO POD1 (T | | 10.) | | | WELL 1 n/a | FAG ID NO. | | | OSE FI C 187 | LE NO(| 5). CP-15877 | | | |
|----------------------------------|------------------------|------------------|-------|-------------------------------|----------------------|---------------------|---------------------------|----------|-----------|-----------------|--------------------|------------------------------------|------------------|--------------------------------|----------------------------|
| CATIO | WELL OWNI | | | ers | | | | | | 1 | E (OPTI) 72.470 | ONAL) | | | |
| GENERAL AND WELL LOCATION | WELL OWNI 11490 Wes | ER MAILI | NG AD | DRESS | | | <u> </u> | | | CITY Houst | on | | STATE TX | 77077 | ZIP |
| M QI | | | | DE | GREES | MIN | UTES | SECO | NDS | 1 | | | | | |
| AL AP | WELL LOCATIO | N L | ATITU | JDE | 32 | 2 | 28 | 59. | .64 N | | | REQUIRED: ONE TEN | TH OF A | SECOND | |
| NER | (FROM GP | 'S) | ONGI | TUDE | 103 | 3 | 37 | 47. | .48 W | * DAT | UM REQ | QUIRED: WGS 84 | | | |
| 1. GE | DESCRIPTION SE NE NW | | | | STREET ADD | RESS ANI | D COMMON | LANDM | ARKS – PI | SS (SECTI | ION, TO | WNSHJIP, RANGE) WH | ERE AV/ | AILABLE | |
| | LICENSE NO 124 | | N | AME OF LICENSED | | Jackie I | D. Atkins | | | | | NAME OF WELL DR Atkins Eng | | | s, Inc. |
| | DRILLING S' 09/21/ | | D | 09/21/2021 | DEPTH OF CO tempo | | D WELL (FT 11 materia) | - | BORE H | DLE DEPT 105 | H (FT) | DEPTH WATER FIR | ST ENCO n/a | | FT) |
| Z | COMPLETEI | O WELL IS | s: [| ARTESIAN | DRY HO | LE [| SHALLO | W (UNCO | ONFINED) | | | STATIC WATER LEV | /EL IN CO n/a | | WELL (FT) |
| ATIO | DRILLING F | LUID: | 0 | AIR | MUD | | ADDITIVI | es – spe | CIFY: | | | ** | | | |
| ORM | DRILLING M | ETHOD: | | ROTARY | HAMME | R [| CABLE TO | DOL | Г отн | ER – SPEC | JFY: | Hollo | w Sten | 1 Auger | |
| 2. DRILLING & CASING INFORMATION | DEPTH FROM | (feet bgl) TO | | BORE HOLE DIAM (inches) | (include | GRA each cas | ing string, | | | ASING NECTIO | DN | CASING INSIDE DIAM. (inches) | TH | ING WAL ICKNESS (inches) | L SLOT SIZE (inches) |
| CAS | 0 | 105 | - | ±6.5 | | sections Boring- | of screen) HSA | | (add cou | pling dian | icter) | | | | |
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| د. | DEPTH | | | BORE HOLE DIAM. (inches) | | | ULAR SE | | | | | AMOUNT (cubic feet) | | | HOD OF EMENT |
| 3. ANNULAR MATERIAL | FROM | то | | DIAM. (menes) | ORA | | ACK SIZE- | | | CKVAL | | (cubic feet) | | TEAC | |
| ATE | | | | | | | | | | | | | | | |
| RM | | | | | | | | | | | | | | | |
| DILA | | | | | | | | | | | | | | | · · · · |
| IN | | - | | | | | | | | | | | | | |
| 3. A | | | | | | | | | | | | OSE DIT O | 01/22 | 2021 🕬 | 245 |
| | | | | | | | | | | | | | | | |
| FOR | OSE INTER | | | | | | | | | • | WR-2 | 0 WELL RECORD | & LOG | (Version 0 | 6/30/17) |
| FILE | <u> NO. (</u> | <u>P-19</u> | 57 | 7 | 7~ | | POD NO | | | | TRN | ¥++ | 50 | 1 | |
| LOC | ATION | Non | | 215. | 32E. | 13. | 124 | 4 | | WELL | TAG I | D NO. | | PA | GE 1 OF 2 |

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| | DEPTH (1 FROM | eet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED INCLUDE WATER-BEARING CAVITIES OR FRACTURE 2 (attach supplemental sheets to fully describe all units) | ZONES | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|------------------------------|------------------|----------------|---------------------------------|---|------------------------------|---|--|
| | 0 | 19 | 19 | Caliche, consolidated with sand, White | | Y VN | Derize (Brin) |
| | 19 | 29 | 10 | Sand, Fine-grained, poorly graded, Tan | | Y VN | |
| | 29 | 105 | 76 | Sand, Fine-grained, poorly graded, Reddish Brown | | Y √N | |
| | 27 | 105 | | Y N | | | |
| | | | | | | Y N | |
| | | | | | | Y N | |
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| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | Y N | |
| ĬQX | | | | · · · · · · · · · · · · · · · · · · · | | Y N | |
| 4. H | | | | | | Y N | |
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| | | | | | | Y N | |
| | METHOD U | ISED TO ES | TIMATE YIELD | OF WATER-BEARING STRATA: | тот | AL ESTIMATED | |
| | PUM | | | BAILER OTHER - SPECIFY: | | LL YIELD (gpm): | 0.00 |
| NOIS | WELL TES | T TEST STAR | RESULTS - ATT T TIME, END TI | ACH A COPY OF DATA COLLECTED DURING WELL TESTIN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOW | G, INCLUD N OVER TH | ING DISCHARGE M IE TESTING PERIO | IETHOD, D. |
| TEST; RIG SUPERVISI | MISCELLA | NEOUS INF | ie | emporary well materials removed and the soil boring backfille et below ground surface, then hydrated bentonite chips from t ogs adapted from WSP on-site geologist. | ed using dri en feet belo | ll cuttings from tot ow ground surface | al depth to ten to surface. |
| TEST | PRINT NAN | IE(S) OF D | RILL RIG SUPER | VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL | CONSTRU | CTION OTHER TH | AN LICENSEE: |
| 5.1 | Shane Eldri | dge, Carme | elo Trevino, Car | neron Pruitt | | | |
| SIGNATURE | CORRECT I | RECORD O | F THE ABOVE I | IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE ANI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W 0 DAYS AFTER COMPLETION OF WELL DRILLING: | ELL RECO | the foregoing is rd with the sta DM OCT 22202 | TE ENGINEER |
| | Jack K | tkins | | Jackie D. Atkins | | 10-22-2021 | |
| ¢. | | SIGNAT | URE OF DRILLE | R / PRINT SIGNEE NAME | | DATE | |
| FOI | R OSE INTEB | | | <u>م</u> رين | | CORD & LOG (Ver | sion 06/30/2017) |
| | E NO. | <i>P-</i> 1 | 87-7 | POD NO. TRN 1 | | 19930 | |
| LO | CATION | hon | <u></u> 21 | 5.32E.13.124 WELL TAG II | _ | | PAGE 2 OF 2 |
| | | | | | | | <u>. </u> |



APPENDIX C

Photographic Log

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APPENDIX D

Lithologic Soil Sampling Logs

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| | | | | | | | | Sample Name: BH01 | Date: 8/24/23 | | | |
|---------|-------------------|----------------|----------|-----------|-------------------|----------|---------------------|--------------------------------|-----------------------|--|--|--|
| | | | N | C | ΟΙ | | Μ | Site Name: Margarita 13 Fec | leral Com #015H | | | |
| | | | | | | | | Incident Number: nAPP2306 | 635043 | | | |
| | | | | | | | | Job Number: 03A2270007 | | | | |
| | | | | | SAMPLING | 6 LOG | | Logged By: Cole Burton | Method: Hand Auger | | | |
| oorc | linates: 3 | 2.48162, | 103.6 | 2538 | | | | Hole Diameter: 3" | Total Depth: 0.5' | | | |
| omn | nents: | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Content | ride n) | or n) | ing | le ID | Sample | Depth | Rock bol | | | | | |
| Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Depth (ft bgs) | (ft bgs) | USCS/Rock Symbol | Lithologi | c Descriptions | | | |
| D | | | Y | BH01 | 0 | 0 | ССНЕ | Caliche: Medium brown sand, so | ome caliche, staining | | | |
| | | | | | - | 0.5 | | Caliche Rock | | | | |
| | 1 | 1 | | | | | epth 0.5 | | | | | |
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| Ste kame: Margarita 13 Federal Com M015H Incident Number: InAPP23063503 Job Number: 30A2270007 LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.48168, -103.62550 Hole Diameter: 3" Total Depth: 2'2" Comments: Field screening conducted with MDMR titration method for choride, respectively. Chloride test performed with 11 dilution factor of solid de distilled water. No correction factors included. attent of solid of distilled water. No correction factors included. Lithologic Descriptions D Incident Number: and Number: and Number: and Number and Number and Number: and Numer: and Number: and Number: and Number: and Numb | | | | | | | | | Sample Name: BH02 | Date: 8/24/23 | | | |
|---|--------|------------------------------------|----------------|----------|------------|-------------------|---------|------------|---------------------------------------|-----------------------------|--|--|--|
| Job Number: 03A2270007 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Hand Auger Coordinates: 32.48168 , -103.62550 Hole Diameter: 3" Total Depth: 2' 2" Comments: Field screening conducted with MOHR titration method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included. any tig by (m d) of grad by | | | | | C | | | | | | | | |
| Job Number: 03A2270007 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Hand Auger Coordinates: 32.48168 , -103.62550 Hole Diameter: 3" Total Depth: 2' 2" Comments: Field screening conducted with MOHR titration method for choride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included. ant total begin be | | | | IN | 3 | | | | | | | | |
| Coordinates: 32.48168 , -103.62550 Total Depth: 2' 2" Comments: Field screening conducted with MOHR titration method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included. and factor of soil to distilled water. No correction factors included. Depth (ft bgs) Lithologic Descriptions D Y BH02 1 1 SP-SC Sand & clay: Dark brown, High placticity, highly cohesive M 400 BH02 2 2 SP-SC Sand & clay: Medium brown, High placticity, highly cohesive | | | | | | | | | Job Number: 03A2270007 | | | | |
| Coordinates: 32.48168 , -103.62550 Total Depth: 2' 2" Comments: Field screening conducted with MOHR titration method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included. and factor of soil to distilled water. No correction factors included. Depth (ft bgs) Lithologic Descriptions D Y BH02 1 1 SP-SC Sand & clay: Dark brown, High placticity, highly cohesive M 400 BH02 2 2 SP-SC Sand & clay: Medium brown, High placticity, highly cohesive | | | LITHOL | OGI | C / SOIL S | SAMPLING | G LOG | | Logged By: Cole Burton | Method: Hand Auger | | | |
| factor of soil to distilled water. No correction factors included. ant to find to fin | Coordi | Coordinates: 32.48168 , -103.62550 | | | | | | | | | | | |
| D Y BH02 0 0 CCHE Caliche: Medium brown sand, some caliche, staining M 600 BH02 1 1 SP-SC Sand & clay: Dark brown, High placticity, highly cohesive M 400 BH02 2 2 SP-SC Sand & clay: Medium brown, High placticity, highly cohesive M 400 BH02 2 2 CCHE Caliche and rock | | | | - | | | | nod for ch | loride, respectively. Chloride test | performed with 1:1 dilution | | | |
| M 600 BH02 1 1 SP-SC Sand & clay: Dark brown, High placticity, highly cohesive M 400 BH02 2 2 SP-SC Sand & clay: Medium brown, High placticity, highly cohesive V 400 BH02 2 2 CCHE Caliche and rock | | Chloride (ppm) | Vapor (ppm) | Staining | | Depth (ft bgs) | - | | Lithologic De | escriptions | | | |
| M 400 BH02 2 2 SP-SC Sand & clay: Medium brown, High placticity, highly cohesive | D | | | Y | BH02 | 0] | L O | CCHE | Caliche: Medium brown sand, some of | caliche, staining | | | |
| 2.2 CCHE Caliche and rock | М | 600 | | | BH02 | - 1 - | | SP-SC | Sand & clay: Dark brown, High plactic | city, highly cohesive | | | |
| | М | 400 | | | BH02 | 2 | 2 | SP-SC | Sand & clay: Medium brown, High pla | acticity, highly cohesive | | | |
| | | | | | | - | 2.2 | CCHE | Caliche and rock | | | | |
| | | | | | | | Total D | Depth 2.2 | 2' bgs. | | | | |
| | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | |



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Released to Imaging: 2/14/2024 11:37:34 AM





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: Margarita Federal 13 Com #005H

Work Order: E308046

Job Number: 23052-0001

Received: 8/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/11/23

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: 8/11/23

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



Page 31 of 106

Project Name: Margarita Federal 13 Com #005H Workorder: E308046 Date Received: 8/8/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2023 8:15:00AM, under the Project Name: Margarita Federal 13 Com #005H.

The analytical test results summarized in this report with the Project Name: Margarita Federal 13 Com #005H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

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

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

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

Envirotech Web Address: www.envirotech-inc.com

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Received by OCD: 10/27/2023 9:46:57 PM

Sample Summary

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| | | Sumple Sum | illal y | | |
|------------------------------|---------------|------------------|----------------------|-------------|------------------|
| Matador Resources, LLC. | | Project Name: | Margarita Federal 13 | 3 Com #005H | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 23052-0001 | | Reported. |
| Dallas TX, 75240 | | Project Manager: | Ashley Giovengo | | 08/11/23 09:48 |
| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
| S01-0' | E308046-01A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| S02-0' | E308046-02A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| 'S03-0' | E308046-03A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| 'S04-0' | E308046-04A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| 3H01-0' | E308046-05A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| 3H02-0' | E308046-06A | Soil | 08/04/23 | 08/08/23 | Glass Jar, 2 oz. |
| | | | | | |



| | | - | | | | | |
|--|--------------|------------|--------------|-------------|---------------------|----------|----------------|
| Matador Resources, LLC. | Project Name | | garita Feder | | | | |
| 5400 LBJ Freeway, Suite 1500 | Project Num | | 52-0001 | | Reported: | | |
| Dallas TX, 75240 | Project Mana | ager: Ashl | ley Gioveng | | 8/11/2023 9:48:44AM | | |
| | | SS01-0' | | | | | |
| | | E308046-01 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Dilu | tion Pro | epared | Analyzed | Notes |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | | Analyst: IY | | | Batch: 2332023 |
| Benzene | ND | 0.0250 | 1 | 08 | /08/23 | 08/09/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08 | /08/23 | 08/09/23 | |
| Toluene | ND | 0.0250 | 1 | 08 | /08/23 | 08/09/23 | |
| o-Xylene | ND | 0.0250 | 1 | 08 | /08/23 | 08/09/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08 | /08/23 | 08/09/23 | |
| Total Xylenes | ND | 0.0250 | 1 | . 08 | /08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08 | /08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | 70-130 | 08 | /08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 100 % | 70-130 | 08. | /08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst: IY | | | Batch: 2332023 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | . 08 | /08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08. | /08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | 70-130 | 08. | /08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 100 % | 70-130 | 08. | /08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst: KM | | | Batch: 2332031 |
| 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 | | 96.5 % | 50-200 | 08. | /08/23 | 08/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: BA | | | Batch: 2332026 |
| Chloride | 175 | 20.0 | 1 | 08 | /08/23 | 08/08/23 | |





Received by OCD: 10/27/2023 9:46:57 PM

Sample Data

| | | ample D | | | | | |
|---|-------------------------------|------------|------------------------|-----------|---------------------|----------|----------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | Project Name: Project Numb | | garita Fede 52-0001 | eral 13 C | Com #005H | | Reported: |
| Dallas TX, 75240 | Project Manag | ger: Ash | ley Gioven | | 8/11/2023 9:48:44AM | | |
| | | SS02-0' | | | | | |
| | | E308046-02 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Dil | ution | Prepared | Analyzed | Notes |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | | Analyst: | IY | | Batch: 2332023 |
| Benzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Ethylbenzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Toluene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| o-Xylene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| o,m-Xylene | ND | 0.0500 | | 1 | 08/08/23 | 08/09/23 | |
| Total Xylenes | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 102 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst: | IY | | Batch: 2332023 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 102 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst: | KM | | Batch: 2332031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | 1 | 08/08/23 | 08/08/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | | 1 | 08/08/23 | 08/08/23 | |
| Surrogate: n-Nonane | | 102 % | 50-200 | | 08/08/23 | 08/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: | BA | | Batch: 2332026 |
| Chloride | 42.3 | 20.0 | | 1 | 08/08/23 | 08/08/23 | |



Received by OCD: 10/27/2023 9:46:57 PM

Sample Data

| | ~ | ampic D | | | | | | |
|--|---------------|------------|------------|-----------|-----------|----------|---------------------|--|
| Matador Resources, LLC. | Project Name: | Mar | garita Fed | eral 13 C | Com #005H | | | |
| 5400 LBJ Freeway, Suite 1500 | Project Numbe | er: 2305 | 52-0001 | Reported: | | | | |
| Dallas TX, 75240 | Project Manag | ger: Ash | ley Giover | ngo | | | 8/11/2023 9:48:44AM | |
| | | SS03-0' | | | | | | |
| | | E308046-03 | | | | | | |
| | | Reporting | | | | | | |
| Analyte | Result | Limit | Dil | ution | Prepared | Analyzed | Notes | |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | | Analyst: | : IY | | Batch: 2332023 | |
| Benzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | | |
| Ethylbenzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | | |
| Toluene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | | |
| p-Xylene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | | |
| p,m-Xylene | ND | 0.0500 | | 1 | 08/08/23 | 08/09/23 | | |
| Fotal Xylenes | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.8 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Surrogate: Toluene-d8 | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst: | IY | | Batch: 2332023 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | 1 | 08/08/23 | 08/09/23 | | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.8 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Surrogate: Toluene-d8 | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst: | : KM | | Batch: 2332031 | |
| Diesel Range Organics (C10-C28) | 26.0 | 25.0 | | 1 | 08/08/23 | 08/08/23 | | |
| Dil Range Organics (C28-C36) | ND | 50.0 | | 1 | 08/08/23 | 08/08/23 | | |
| Surrogate: n-Nonane | | 106 % | 50-200 | | 08/08/23 | 08/08/23 | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: | BA | | Batch: 2332026 | |
| Chloride | 463 | 20.0 | | 1 | 08/08/23 | 08/08/23 | | |


Sample Data

| | 5 | ample D | ata | | | | |
|---|--|------------|--------------------------------------|----------|-----------|----------|---|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name Project Numb Project Mana | ber: 230. | garita Fede 52-0001 ley Gioven | | Com #005H | | Reported: 8/11/2023 9:48:44AM |
| | | SS04-0' | | | | | |
| | | E308046-04 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Dil | ution | Prepared | Analyzed | Notes |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | | Analyst | IY | | Batch: 2332023 |
| Benzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Ethylbenzene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Toluene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| -Xylene | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| o,m-Xylene | ND | 0.0500 | | 1 | 08/08/23 | 08/09/23 | |
| Fotal Xylenes | ND | 0.0250 | | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst | IY | | Batch: 2332023 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | 70-130 | | 08/08/23 | 08/09/23 | |
| urrogate: Toluene-d8 | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst | KM | | Batch: 2332031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | 1 | 08/08/23 | 08/08/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | | 1 | 08/08/23 | 08/08/23 | |
| Surrogate: n-Nonane | | 110 % | 50-200 | | 08/08/23 | 08/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: | BA | | Batch: 2332026 |
| Chloride | 176 | 20.0 | | 1 | 08/08/23 | 08/08/23 | |



Sample Data

| | D | ample D | | | | | |
|--|--------------|------------|--------------|------------|-----------|----------|---------------------|
| Matador Resources, LLC. | Project Name | :: Mar | garita Feder | ral 13 Co | m #005H | | |
| 5400 LBJ Freeway, Suite 1500 | Project Numb | per: 2305 | 52-0001 | | Reported: | | |
| Dallas TX, 75240 | Project Mana | ger: Ashi | ley Gioveng | go | | | 8/11/2023 9:48:44AM |
| | | BH01-0' | | | | | |
| | | E308046-05 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Dilu | tion | Prepared | Analyzed | Notes |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | 1 | Analyst: I | Y | | Batch: 2332023 |
| Benzene | ND | 0.0250 | 1 | | 08/08/23 | 08/09/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | | 08/08/23 | 08/09/23 | |
| Toluene | ND | 0.0250 | 1 | | 08/08/23 | 08/09/23 | |
| p-Xylene | ND | 0.0250 | 1 | | 08/08/23 | 08/09/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | | 08/08/23 | 08/09/23 | |
| Total Xylenes | ND | 0.0250 | 1 | | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.2 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 99.6 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | 1 | Analyst: I | Y | | Batch: 2332023 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.2 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 99.6 % | 70-130 | | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | 1 | Analyst: ŀ | KM | | Batch: 2332031 |
| 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 | | 105 % | 50-200 | | 08/08/23 | 08/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | 1 | Analyst: H | BA | | Batch: 2332026 |
| Chloride | 9990 | 400 | 20 | 0 | 08/08/23 | 08/09/23 | |



Sample Data

| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ample D | | | | |
|--|---|------------|---------------|----------------|----------|---------------------|
| Matador Resources, LLC. | Project Name | e: Mar | garita Federa | l 13 Com #005H | | |
| 5400 LBJ Freeway, Suite 1500 | Project Numl | ber: 230 | 52-0001 | | | Reported: |
| Dallas TX, 75240 | Project Mana | iger: Ash | ley Giovengo |) | | 8/11/2023 9:48:44AM |
| | | BH02-0' | | | | |
| | | E308046-06 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Diluti | on Prepared | Analyzed | Notes |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | А | nalyst: IY | | Batch: 2332023 |
| Benzene | ND | 0.0250 | 1 | 08/08/23 | 08/09/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/08/23 | 08/09/23 | |
| Toluene | ND | 0.0250 | 1 | 08/08/23 | 08/09/23 | |
| p-Xylene | ND | 0.0250 | 1 | 08/08/23 | 08/09/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 08/08/23 | 08/09/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 99.4 % | 70-130 | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | 70-130 | 08/08/23 | 08/09/23 | |
| Surrogate: Toluene-d8 | | 101 % | 70-130 | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | А | nalyst: IY | | Batch: 2332023 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/08/23 | 08/09/23 | |
| Surrogate: Bromofluorobenzene | | 99.4 % | 70-130 | 08/08/23 | 08/09/23 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | 70-130 | 08/08/23 | 08/09/23 | |
| urrogate: Toluene-d8 | | 101 % | 70-130 | 08/08/23 | 08/09/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | А | nalyst: KM | | Batch: 2332031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/08/23 | 08/08/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/08/23 | 08/08/23 | |
| Surrogate: n-Nonane | | 111 % | 50-200 | 08/08/23 | 08/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | А | nalyst: BA | | Batch: 2332026 |
| Chloride | 11400 | 400 | 20 | 08/08/23 | 08/09/23 | |



QC Summary Data

| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | 23 | argarita Federal 052-0001 shley Giovengo | 13 Com | a #005H | | | Reported: 8/11/2023 9:48:44AM |
|---|--------|--|-------|--|----------|---------|--------------|-----------|---|
| | | Volatile Organic | Сотро | unds by EPA | 82601 | 3 | | | Analyst: IY |
| Analyte | | Reporting | Spike | Source | | Rec | | RPD | - |
| Analyte | Result | Limit | Level | Result | Rec | Limits | RPD | Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2332023-BLK1) | | | | | | | Prepared: 08 | 8/08/23 A | nalyzed: 08/09/23 |
| Benzene | ND | 0.0250 | | | | | 1 | | |
| 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 | 0.506 | 0.0250 | 0.500 | | 101 | 70-130 | | | |
| | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.483 | | 0.500 | | 96.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | 0.500 | | 103 | 70-130 | | | |
| LCS (2332023-BS1) | | | | | | | Prepared: 08 | 8/08/23 A | nalyzed: 08/09/23 |
| Benzene | 2.51 | 0.0250 | 2.50 | | 100 | 70-130 | | | |
| Ethylbenzene | 2.34 | 0.0250 | 2.50 | | 93.5 | 70-130 | | | |
| Toluene | 2.41 | 0.0250 | 2.50 | | 96.3 | 70-130 | | | |
| o-Xylene | 2.46 | 0.0250 | 2.50 | | 98.4 | 70-130 | | | |
| p,m-Xylene | 4.85 | 0.0500 | 5.00 | | 97.0 | 70-130 | | | |
| Total Xylenes | 7.31 | 0.0250 | 7.50 | | 97.5 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.496 | | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.498 | | 0.500 | | 99.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.511 | | 0.500 | | 102 | 70-130 | | | |
| Matrix Spike (2332023-MS1) | | | | Source: E. | 308045-2 | 21 | Prepared: 08 | 8/08/23 A | nalyzed: 08/09/23 |
| Benzene | 2.59 | 0.0250 | 2.50 | ND | 104 | 48-131 | _ | | - |
| Ethylbenzene | 2.46 | 0.0250 | 2.50 | ND | 98.3 | 45-135 | | | |
| Toluene | 2.55 | 0.0250 | 2.50 | ND | 102 | 48-130 | | | |
| p-Xylene | 2.62 | 0.0250 | 2.50 | ND | 102 | 43-135 | | | |
| o,m-Xylene | 5.15 | 0.0500 | 5.00 | ND | 103 | 43-135 | | | |
| Total Xylenes | 7.77 | 0.0250 | 7.50 | ND | 103 | 43-135 | | | |
| | 0.512 | 0.0250 | 0.500 | | 101 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.491 | | 0.500 | | 98.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.516 | | 0.500 | | 103 | 70-130 | | | |
| Matrix Spike Dup (2332023-MSD1) | | | | Source: E. | 308045-2 | 21 | Prepared: 08 | 8/08/23 A | nalyzed: 08/09/23 |
| Benzene | 2.64 | 0.0250 | 2.50 | ND | 106 | 48-131 | 2.04 | 23 | |
| Ethylbenzene | 2.49 | 0.0250 | 2.50 | ND | 99.7 | 45-135 | 1.37 | 27 | |
| Toluene | 2.56 | 0.0250 | 2.50 | ND | 102 | 48-130 | 0.509 | 24 | |
| o-Xylene | 2.68 | 0.0250 | 2.50 | ND | 107 | 43-135 | 2.13 | 27 | |
| o,m-Xylene | 5.31 | 0.0500 | 5.00 | ND | 106 | 43-135 | 3.04 | 27 | |
| Total Xylenes | 7.98 | 0.0250 | 7.50 | ND | 106 | 43-135 | 2.74 | 27 | |
| Surrogate: Bromofluorobenzene | 0.513 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.488 | | 0.500 | | 97.5 | 70-130 | | | |
| niroguie. 1,2-Dichioroeinane-a4 | 0.400 | | 0.000 | | 11.5 | 70 150 | | | |
| Surrogate: Toluene-d8 | 0.508 | | 0.500 | | 102 | 70-130 | | | |



QC Summary Data

| | | $\mathbf{z} \in \mathbf{z}$ | ~ | ary Dav | ~ | | | | |
|---|--------|--|----------------|---|------------|---------------|-------------|-------------|---|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | 2 | Margarita Feder 23052-0001 Ashley Giovenş | | 005H | | | Reported: 8/11/2023 9:48:44AM |
| | No | onhalogenated O | Organics | by EPA 80 | 15D - GR | 0 | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limi | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2332023-BLK1) | | | | | | | Prepared: 0 | 8/08/23 | Analyzed: 08/09/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.506 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.483 | | 0.500 | | 96.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | 0.500 | | 103 | 70-130 | | | |
| LCS (2332023-BS2) | | | | | | | Prepared: 0 | 8/08/23 | Analyzed: 08/09/23 |
| Gasoline Range Organics (C6-C10) | 54.6 | 20.0 | 50.0 | | 109 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.507 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.473 | | 0.500 | | 94.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.519 | | 0.500 | | 104 | 70-130 | | | |
| Matrix Spike (2332023-MS2) | | | | Source: | E308045-21 | | Prepared: 0 | 8/08/23 | Analyzed: 08/09/23 |
| Gasoline Range Organics (C6-C10) | 58.8 | 20.0 | 50.0 | ND | 118 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.514 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.491 | | 0.500 | | 98.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | 0.500 | | 103 | 70-130 | | | |
| Matrix Spike Dup (2332023-MSD2) | | | | Source: | E308045-21 | - | Prepared: 0 | 8/08/23 | Analyzed: 08/09/23 |
| Gasoline Range Organics (C6-C10) | 60.1 | 20.0 | 50.0 | ND | 120 | 70-130 | 2.17 | 20 | |
| Surrogate: Bromofluorobenzene | 0.515 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.469 | | 0.500 | | 93.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.519 | | 0.500 | | 104 | 70-130 | | | |
| | | | | | | | | | |



QC Summary Data

| | | QC D | u I I I I I I | ary Data | 4 | | | | |
|---|-----------------|--|-------------------------|---|----------|---|-------------|-------------------|--------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | | Margarita Feder 23052-0001 Ashley Gioveng | | Reported: 8/11/2023 9:48:44AM | | | |
| · · · · · · · · · · · · · · · · · · · | Nonh | alogenated Org | | y EPA 8015D |) - DRO | /ORO | | | Analyst: KM |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2332031-BLK1) | | | | | | | Prepared: 0 | 8/08/23 A | Analyzed: 08/08/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 54.3 | | 50.0 | | 109 | 50-200 | | | |
| LCS (2332031-BS1) | | | | | | | Prepared: 0 | 8/08/23 A | Analyzed: 08/08/23 |
| Diesel Range Organics (C10-C28) | 252 | 25.0 | 250 | | 101 | 38-132 | | | |
| Surrogate: n-Nonane | 53.5 | | 50.0 | | 107 | 50-200 | | | |
| Matrix Spike (2332031-MS1) | | | | Source: | E308041- | 01 | Prepared: 0 | 8/08/23 A | Analyzed: 08/08/23 |
| Diesel Range Organics (C10-C28) | 267 | 25.0 | 250 | ND | 107 | 38-132 | | | |
| Surrogate: n-Nonane | 50.3 | | 50.0 | | 101 | 50-200 | | | |
| Matrix Spike Dup (2332031-MSD1) | | | | Source: | E308041- | 01 | Prepared: 0 | 8/08/23 A | Analyzed: 08/08/23 |
| Diesel Range Organics (C10-C28) | 272 | 25.0 | 250 | ND | 109 | 38-132 | 1.82 | 20 | |
| Surrogate: n-Nonane | 52.1 | | 50.0 | | 104 | 50-200 | | | |



QC Summary Data

| | | ~ | | v | | | | | |
|---------------------------------|--------|--------------------|----------------|-------------------|------------|---------------|-------------|--------------|---------------------|
| Matador Resources, LLC. | | Project Name: | Ν | Margarita Feder | ral 13 Com | #005H | | | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 2 | 23052-0001 | | | | | |
| Dallas TX, 75240 | | Project Manager: | : 4 | Ashley Gioveng | go | | | | 8/11/2023 9:48:44AM |
| | | Anions | by EPA | 300.0/9056 | 4 | | | | Analyst: BA |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2332026-BLK1) | | | | | | | Prepared: 0 | 8/08/23 A | nalyzed: 08/08/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2332026-BS1) | | | | | | | Prepared: 0 | 8/08/23 A | nalyzed: 08/08/23 |
| Chloride | 256 | 20.0 | 250 | | 103 | 90-110 | | | |
| Matrix Spike (2332026-MS1) | | | | Source: | E308042- | 01 | Prepared: 0 | 8/08/23 A | nalyzed: 08/08/23 |
| Chloride | 296 | 20.0 | 250 | 39.0 | 103 | 80-120 | | | |
| Matrix Spike Dup (2332026-MSD1) | | | | Source: | E308042-(| 01 | Prepared: 0 | 8/08/23 A | nalyzed: 08/08/23 |
| Chloride | 296 | 20.0 | 250 | 39.0 | 103 | 80-120 | 0.147 | 20 | |
| | | | | | | | | | |

QC Summary Report Comment:

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



| Matador Resources, LLC. | Project Name: | Margarita Federal 13 Com #005H | |
|------------------------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 08/11/23 09:48 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release Project Information

Received by OCD: 10/27/2023 9:46:57 PM

| | Matador Prod | | | | | | Bill To | | | 1 | Lab | Use O | | | TAT | | | | | EPA Program | |
|-----------------|-----------------------|-----------|----------------------|---------------------|--|---|---------------------|----------------|------------|-----------------------------|-----------------------------|-------------|----------------|------------|----------------|--------------------|-------|-------------------|----------|-------------------------------|----------|
| | Margarita F | | | 05H | Attention: Matador Production Company Lab WO# Job Number Address: on file E3086440 2004 0000 | | | | | | | 1D | 2D | 3D | Stand | | CWA | SDWA | | | |
| | Manager: As | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ress: on file | | | E3C | 280 | SUL | 010 | 140 | aw | | | | X | - | | |
| | 3122 Natio | | | | Number of the second se | State, Zip: | | | - | | | Anal | ysis an | d Metho | d | | | 5 | | _ | RCRA |
| | te, Zip: Carls | | 88220 | | Phor | ne: (337)319-83 | 198 | _ | 14 | An | | | | | | 1 | | | | 1 | |
| | 575-988-005 | | | | Ema | il: clinton.talley | @matadorresc | urces.com | | | | | | | | | | | | State | |
| | giovengo@e | ensolum.o | com | | | | | | | | 51 51 | 2 0 | 0.00 | | MN | | ¥ | NN | | UT AZ | TX |
| Report c | ue by: | | | | | | | 1 | | | y 8021 | 601 | de 3(| | | | 1.50 | × | | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | | Lab Number | Thur | 1711 GRU/UNU/UNU BY 8015 | BTEX by 8021 VOC hv 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | | Remarks | |
| 9:25 | 8/4/2023 | Soil | 1 Jar | | | SS01 - 0' | | 1 | | | | | | | x | | | | | | |
| 9:55 | 8/4/2023 | Soil | 1 Jar | | | SS02 - 0' | | 2 | | | | | | | x | | | | | | |
| 9:27 | 8/4/2023 | Soil | 1 Jar | | | SS03 - 0' | | 3 | | | | | | | x | | | | | | |
| 9:28 | 8/4/2023 | Soil | 1 Jar | | | SS04 - 0' | | 4 | | | | | | | x | | | | | | |
| 10:17 | 8/4/2023 | Soil | 1 Jar | | | BH01 - 0' | - Y | 5 | | | | | | | x | | | | | | |
| 10:18 | 8/4/2023 | Soil | 1 Jar | | | BH02 - 0' | | 6 | | | | | | | x | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | _ | | | | | | - | - | | | | | | | | | - |
| Addition | al Instructio | ns: Plea | ase CC: cl | urton@ensol | um.com, | agiovengo@en: | solum.com, cha | dhmilton | @ensc | olum. | com | | | _ | - | | | - | | | |
| 17 / | 1 1 | | | | | at tampering with or i | | lling the samp | le locatio | on, | - | | | | | | | | | they are samp equent days. | led or |
| | ed by: (Signatur | | Date | | | Sampled Received by: (Signa | ~ | Date 7-7-0 | 77 | Time | 11 | _ | | | 0 | | se On | ly | | | - |
| Relinquish | ed by: (Signatur | de) | Date | | 630 | Received by: (Signa | iture) | Date 8.7. | | Time 17 | 13 | | eived | on ice: | - |)/ N | 4 | TO | | | |
| Relinquish | ed by: (Signatur | re) | Date | 7-23 Time | 2115 | Received by: (Signe | | Date 8.8. | T | Time | 5 | <u>T1</u> | | 0- | <u>12</u> 4 | | | <u></u> <u>T3</u> | | | |
| FILOW | V YIN | 60 | 14 | | 545 | ung | you | | - | - | | | G Tem | | horal | | | | | | |
| | rix: S - Soil, Sd - S | | | | alace other | arrangements are i | Nado Harardeur | Containe | | | | | | | | 17 - X - X - X - X | | | or the a | nalysis of | he above |
| iote: Sam | pies are discard | to these | after resul | nis are reported up | aton with | arrangements are r this COC. The liabili | ty of the laborator | vis limited + | o the a | mount | naid fr | or on th | e renov | t at the c | nem e | xpens | e. in | ereportit | or the a | indivsis of | e(|

Envirotech Analytical Laboratory

| Client: | Matador Resources, LLC. | ate Received: | 08/08/23 | 08:15 | | Work Order ID: | E308046 |
|-----------------|---|---------------------|-----------|---------------------|-----|----------------|----------------|
| Phone: | (972) 371-5200 D | ate Logged In: | 08/07/23 | 17:38 | | Logged In By: | Alexa Michaels |
| Email: | agiovngo@ensolum.com D | ue Date: | 08/14/23 | 17:00 (4 day TAT) | | | |
| Chain o | of Custody (COC) | | | | | | |
| 1. Does | the sample ID match the COC? | | Yes | | | | |
| | the number of samples per sampling site location match | the COC | Yes | | | | |
| 3. Were | samples dropped off by client or carrier? | | Yes | Carrier: Courie | ier | | |
| 4. Was th | he COC complete, i.e., signatures, dates/times, requeste | d analyses? | Yes | | | | |
| 5. Were | all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion. | e field, | Yes | | | <u>Commen</u> | ts/Resolution |
| Sample | Turn Around Time (TAT) | | | | | | |
| | ne COC indicate standard TAT, or Expedited TAT? | | Yes | | | | |
| Sample | , 1 | | | | | | |
| _ | sample cooler received? | | Yes | | | | |
| | , was cooler received in good condition? | | Yes | | | | |
| 9. Was ti | he sample(s) received intact, i.e., not broken? | | Yes | | | | |
| 10. Were | e custody/security seals present? | | No | | | | |
| | es, were custody/security seals intact? | | NA | | | | |
| 12. Was t | the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling | | Yes | | | | |
| 13. If no | visible ice, record the temperature. Actual sample te | mperature: <u>4</u> | <u>°C</u> | | | | |
| <u>Sample</u> | <u>Container</u> | | | | | | |
| 14. Are | aqueous VOC samples present? | | No | | | | |
| | VOC samples collected in VOA Vials? | | NA | | | | |
| | e head space less than 6-8 mm (pea sized or less)? | | NA | | | | |
| | a trip blank (TB) included for VOC analyses? | | NA | | | | |
| | non-VOC samples collected in the correct containers? | | Yes | | | | |
| | e appropriate volume/weight or number of sample container | s collected? | Yes | | | | |
| Field La | | | | | | | |
| | e field sample labels filled out with the minimum inform | nation: | V | | | | |
| | Sample ID? Date/Time Collected? | | Yes | | | | |
| | Collectors name? | | Yes No | | | | |
| | Preservation | | 110 | | | | |
| | s the COC or field labels indicate the samples were pres | erved? | No | | | | |
| | sample(s) correctly preserved? | | NA | | | | |
| 24. Is lal | b filteration required and/or requested for dissolved met | als? | No | | | | |
| <u>Multip</u> h | nase Sample Matrix | | | | | | |
| 26. Does | s the sample have more than one phase, i.e., multiphase | 2 | No | | | | |
| | es, does the COC specify which phase(s) is to be analyzed | | NA | | | | |
| Subcont | tract Laboratory | | | | | | |
| | samples required to get sent to a subcontract laboratory |) | No | | | | |
| | a subcontract laboratory specified by the client and if so | | NA | Subcontract Lab: NA | 4 | | |
| <u>Client</u> l | Instruction | | | | | | |
| | | | | | | | |

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







5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Margarita 13 Federal Com #015H

Work Order: E308201

Job Number: 23052-0001

Received: 8/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/1/23

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: 9/1/23

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

Project Name: Margarita 13 Federal Com #015H Workorder: E308201 Date Received: 8/28/2023 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 10:00:00AM, under the Project Name: Margarita 13 Federal Com #015H.

The analytical test results summarized in this report with the Project Name: Margarita 13 Federal Com #015H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com



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| Matador Resources, LLC. | | Project Name: | Margarita 13 Federal Com #015H | Depented |
|------------------------------|---------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | | Project Manager: | Ashley Giovengo | 09/01/23 13:07 |
| Client Semple ID | Lab Samula ID | Motviy | Sampled Dessived | Container |

| Client Sample ID | Lab Sample ID Matrix | Sampled | Received | Container |
|------------------|----------------------|----------|----------|------------------|
| BH02-1' | E308201-01A Soil | 08/24/23 | 08/28/23 | Glass Jar, 2 oz. |
| BH02-2' | E308201-02A Soil | 08/24/23 | 08/28/23 | Glass Jar, 2 oz. |



| | ~ | | | | | |
|--|-------------|------------|-------------------|-----------|----------|--------------------|
| Matador Resources, LLC. | Project Nam | e: Mar | garita 13 Federal | Com #015H | | |
| 5400 LBJ Freeway, Suite 1500 | Project Num | ber: 230 | 52-0001 | | | Reported: |
| Dallas TX, 75240 | Project Man | ager: Ash | ley Giovengo | | | 9/1/2023 1:07:25PM |
| | | BH02-1' | | | | |
| | | E308201-01 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analys | st: IY | | Batch: 2335019 |
| Benzene | ND | 0.0250 | 1 | 08/28/23 | 08/30/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/28/23 | 08/30/23 | |
| Toluene | ND | 0.0250 | 1 | 08/28/23 | 08/30/23 | |
| p-Xylene | ND | 0.0250 | 1 | 08/28/23 | 08/30/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 08/28/23 | 08/30/23 | |
| Fotal Xylenes | ND | 0.0250 | 1 | 08/28/23 | 08/30/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 93.9 % | 70-130 | 08/28/23 | 08/30/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analys | st: IY | | Batch: 2335019 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/28/23 | 08/30/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 85.2 % | 70-130 | 08/28/23 | 08/30/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analys | st: KM | | Batch: 2335066 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/23 | 08/31/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/23 | 08/31/23 | |
| Surrogate: n-Nonane | | 87.4 % | 50-200 | 08/30/23 | 08/31/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | st: BA | | Batch: 2335037 |
| Chloride | 585 | 20.0 | 1 | 08/29/23 | 08/31/23 | |
| | | | | | | |

Sample Data



Sample Data

| | 25 | ample D | ลเล | | | | |
|---|--------------------------------|------------|------------------------|-----------|-----------|----------|--------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | Project Name: Project Numbe | | garita 13 H 52-0001 | Federal C | Com #015H | | Reported: |
| Dallas TX, 75240 | Project Manag | er: Ash | ley Giover | ngo | | | 9/1/2023 1:07:25PM |
| | | BH02-2' | | | | | |
| | - | E308201-02 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Di | lution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | | Analyst | IY | | Batch: 2335019 |
| Benzene | ND | 0.0250 | | 1 | 08/28/23 | 08/30/23 | |
| Ethylbenzene | ND | 0.0250 | | 1 | 08/28/23 | 08/30/23 | |
| Toluene | ND | 0.0250 | | 1 | 08/28/23 | 08/30/23 | |
| o-Xylene | ND | 0.0250 | | 1 | 08/28/23 | 08/30/23 | |
| p,m-Xylene | ND | 0.0500 | | 1 | 08/28/23 | 08/30/23 | |
| Total Xylenes | ND | 0.0250 | | 1 | 08/28/23 | 08/30/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 92.8 % | 70-130 | | 08/28/23 | 08/30/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst | IY | | Batch: 2335019 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | 1 | 08/28/23 | 08/30/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 85.0 % | 70-130 | | 08/28/23 | 08/30/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst: | KM | | Batch: 2335066 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | 1 | 08/30/23 | 08/31/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | 1 | 08/30/23 | 08/31/23 | |
| Surrogate: n-Nonane | | 92.1 % | 50-200 | | 08/30/23 | 08/31/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: | BA | | Batch: 2335037 |
| Chloride | 20.5 | 20.0 | | 1 | 08/29/23 | 08/31/23 | |

QC Summary Data

| 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Number: Project Manager: | | 052-0001 shley Gioveng | go | | | | 9/1/2023 1:07:25PM |
|--|--------|-------------------------------------|----------------|---------------------------|-----------|---------------|-------------|--------------|--------------------|
| | | Volatile Or | rganics b | y EPA 802 | 21B | | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2335019-BLK1) | | | | | | | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Foluene | ND | 0.0250 | | | | | | | |
| p-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.29 | | 8.00 | | 91.1 | 70-130 | | | |
| LCS (2335019-BS1) | | | | | | | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Benzene | 4.20 | 0.0250 | 5.00 | | 84.1 | 70-130 | | | |
| Ethylbenzene | 4.41 | 0.0250 | 5.00 | | 88.2 | 70-130 | | | |
| Foluene | 4.45 | 0.0250 | 5.00 | | 89.1 | 70-130 | | | |
| p-Xylene | 4.56 | 0.0250 | 5.00 | | 91.2 | 70-130 | | | |
| o,m-Xylene | 9.15 | 0.0500 | 10.0 | | 91.5 | 70-130 | | | |
| Total Xylenes | 13.7 | 0.0250 | 15.0 | | 91.4 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.36 | | 8.00 | | 92.0 | 70-130 | | | |
| Matrix Spike (2335019-MS1) | | | | Source: | E308200-(| 02 | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Benzene | 4.18 | 0.0250 | 5.00 | ND | 83.5 | 54-133 | | | |
| Ethylbenzene | 4.36 | 0.0250 | 5.00 | ND | 87.2 | 61-133 | | | |
| Foluene | 4.41 | 0.0250 | 5.00 | ND | 88.2 | 61-130 | | | |
| p-Xylene | 4.50 | 0.0250 | 5.00 | ND | 90.0 | 63-131 | | | |
| o,m-Xylene | 9.03 | 0.0500 | 10.0 | ND | 90.3 | 63-131 | | | |
| Fotal Xylenes | 13.5 | 0.0250 | 15.0 | ND | 90.2 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.32 | | 8.00 | | 91.5 | 70-130 | | | |
| Matrix Spike Dup (2335019-MSD1) | | | | Source: | E308200- | 02 | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Benzene | 4.52 | 0.0250 | 5.00 | ND | 90.4 | 54-133 | 7.91 | 20 | |
| Ethylbenzene | 4.75 | 0.0250 | 5.00 | ND | 95.0 | 61-133 | 8.54 | 20 | |
| Foluene | 4.79 | 0.0250 | 5.00 | ND | 95.8 | 61-130 | 8.28 | 20 | |
| p-Xylene | 4.89 | 0.0250 | 5.00 | ND | 97.8 | 63-131 | 8.33 | 20 | |
| o,m-Xylene | 9.83 | 0.0500 | 10.0 | ND | 98.3 | 63-131 | 8.50 | 20 | |
| Fotal Xylenes | 14.7 | 0.0250 | 15.0 | ND | 98.2 | 63-131 | 8.44 | 20 | |



QC Summary Data

| | | | - | | | | | | |
|---|--------|----------------------------------|----------------|-------------------------------|-----------|---------------|-------------|--------------|--------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | | Project Name: Project Number: | | Margarita 13 Fe 23052-0001 | deral Con | n #015H | | | Reported: |
| Dallas TX, 75240 | | Project Manager: | | Ashley Gioveng | go | | | | 9/1/2023 1:07:25PM |
| | No | nhalogenated C | Organic | s by EPA 801 | 15D - G | RO | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2335019-BLK1) | | | | | | | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.74 | | 8.00 | | 84.2 | 70-130 | | | |
| LCS (2335019-BS2) | | | | | | | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Gasoline Range Organics (C6-C10) | 42.3 | 20.0 | 50.0 | | 84.7 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.94 | | 8.00 | | 86.8 | 70-130 | | | |
| Matrix Spike (2335019-MS2) | | | | Source: | E308200- | 02 | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Gasoline Range Organics (C6-C10) | 43.7 | 20.0 | 50.0 | ND | 87.5 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.88 | | 8.00 | | 85.9 | 70-130 | | | |
| Matrix Spike Dup (2335019-MSD2) | | | | Source: | E308200- | 02 | Prepared: 0 | 8/28/23 A | analyzed: 08/29/23 |
| Gasoline Range Organics (C6-C10) | 44.9 | 20.0 | 50.0 | ND | 89.8 | 70-130 | 2.68 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.86 | | 8.00 | | 85.8 | 70-130 | | | |

QC Summary Data

| | | QU DI | umm | ary Data | a a | | | | |
|---|-----------------|--|-------------------------|---|----------|--------------------|-------------|-------------------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | | Margarita 13 Fe 23052-0001 Ashley Gioveng | | n #015H | | | Reported: 9/1/2023 1:07:25PM |
| | Nonh | alogenated Org | anics b | y EPA 8015D |) - DRO | /ORO | | | Analyst: KM |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2335066-BLK1) | | | | | | | Prepared: 0 | 8/30/23 A | analyzed: 08/31/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 45.9 | | 50.0 | | 91.8 | 50-200 | | | |
| LCS (2335066-BS1) | | | | | | | Prepared: 0 | 8/30/23 A | analyzed: 08/31/23 |
| Diesel Range Organics (C10-C28) | 234 | 25.0 | 250 | | 93.5 | 38-132 | | | |
| Surrogate: n-Nonane | 44.7 | | 50.0 | | 89.4 | 50-200 | | | |
| Matrix Spike (2335066-MS1) | | | | Source: | E308201- | 01 | Prepared: 0 | 8/30/23 A | analyzed: 08/31/23 |
| Diesel Range Organics (C10-C28) | 215 | 25.0 | 250 | ND | 86.0 | 38-132 | | | |
| Surrogate: n-Nonane | 41.7 | | 50.0 | | 83.3 | 50-200 | | | |
| Matrix Spike Dup (2335066-MSD1) | | | | Source: | E308201- | 01 | Prepared: 0 | 8/30/23 A | analyzed: 08/31/23 |
| Diesel Range Organics (C10-C28) | 242 | 25.0 | 250 | ND | 96.9 | 38-132 | 12.0 | 20 | |
| Surrogate: n-Nonane | 44.5 | | 50.0 | | 88.9 | 50-200 | | | |



QC Summary Data

| | | • | | v | | | | | |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|--------------------|
| Matador Resources, LLC. | | Project Name: |] | Margarita 13 Fe | deral Com | #015H | | | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 2 | 23052-0001 | | | | | |
| Dallas TX, 75240 | | Project Manager: | | Ashley Gioveng | go | | | | 9/1/2023 1:07:25PM |
| | | Anions | by EPA | 300.0/9056 | ٨ | | | | Analyst: BA |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2335037-BLK1) | | | | | | | Prepared: 0 | 8/29/23 A | nalyzed: 08/30/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2335037-BS1) | | | | | | | Prepared: 0 | 8/29/23 A | nalyzed: 08/30/23 |
| Chloride | 237 | 20.0 | 250 | | 94.9 | 90-110 | | | |
| Matrix Spike (2335037-MS1) | | | | Source: | E308201-0 |)1 | Prepared: 0 | 8/29/23 A | nalyzed: 08/31/23 |
| Chloride | 616 | 20.0 | 250 | 585 | 12.3 | 80-120 | | | M2 |
| Matrix Spike Dup (2335037-MSD1) | | | | Source: | E308201-0 |)1 | Prepared: 0 | 8/29/23 A | nalyzed: 08/31/23 |
| Chloride | 736 | 20.0 | 250 | 585 | 60.3 | 80-120 | 17.8 | 20 | M2 |
| | | | | | | | | | |

QC Summary Report Comment:

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



| Matador Resources, LLC. | Project Name: | Margarita 13 Federal Com #015H | |
|------------------------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/01/23 13:07 |

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.



| ent: 1 | Aatador Prod | duction C | ompany. | 10 | 2.00 | Bill To | | | | Lab U | se Or | nly | | | T | AT | | EPA P | rogram |
|-----------------|-----------------------|-----------------|----------------------|------------------------|--|------------------|----------------|--------------------|----------------------|-------------|-------------|--------------------------------------|-------|-----------|--------|-----|-------|--------------------|------------------------|
| roject: | Margarita 1 | 3 Federal | Com #0: | 15H | Attention: Matad | or Production Co | ompany | Lab W | | | | | | 1D 2D | | | ndard | CWA | SDWA |
| roject l | Manager: As | hley Giov | vengo | | Address: on file | | | E3C | 82 | 105 | 23 | Number 052-00 | 10 | | | | x | | |
| ddress | 3122 Natio | nal Parks | Hwy | | City, State, Zip: | | | | | | Analy | sis and M | ethod | ł | | | | | RCRA |
| ity, Sta | te, Zip: Carls | bad NM, | 88220 | | Phone: (337)319-8 | 3398 | | by | | | | | | | | | | | |
| | 575-988-005 | | | | Email: clinton.talle | ey@matadorreso | urces.com | ORO | | | | | | | | | 10.55 | State | |
| | giovengo@e | nsolum.c | com | | | | | RO/ | 5 | | | 0.0 | | WN | ¥ | | NM CO | UT AZ | TX |
| eport o | lue by: | | - | | | | | 0/02 | US IN | , 826 | 601 | e 30 | | | 10.0 | | × | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | Lab Number | TPH GRO/DRO/ORO by | 8015 RTEY hu 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | GDOC | | | Remarks | |
| 10:19 | 8/24/2023 | Soil | 1 Jar | | BH02 - 1' | | 1 | | | | | | | x | | - | | | rogram SDWA RCRA |
| 10:23 | 8/24/2023 | Soil | 1 Jar | | BH02 - 2' | | 2 | | | | | | | x | | | | | |
| | | | | | | | The second | | | | | | | | | | | | |
| | | | an - | | | | | | | | | | | | | | | | |
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| | | | | | - | | 1 mail | | | | | | | | | | | | |
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| | | | | | | | No. | | | | | | | | | | | | |
| | | | | | | | No. | | | | | | | | | | | | |
| Additio | nal Instructio | ns: Plea | ase CC: c | burton@ensolu | m.com, agiovengo@er | nsolum.com | | | | | | ~ ~ | | | | | | | |
| ate or tim | e of collection is | considered f | raud and ma | ay be grounds for lega | m aware that tampering with or al action. <u>Sample</u> | ed by: | ling the sampl | e location | , | | | es requiring the ed packed in ice | | | | | | | led or |
| Relinquial | ned by: (Signatu | re) 7 | Date 8 - | 25-23 Time | Received by: (Sign | Laurel | Date 8-25- | J3 Tin | | 05 | Rece | eived on i | ce: | Lab U | | nly | | | |
| mic | | uns | - Date | 0 2 6 9 | 00 Received by: (Sign | Millo | Date 21 | 5.23 Tin | 170 | de | <u>T1</u> | | | T2 | | T | 13 | | |
| Relinquit | hed by: (Signatu | re) MSS | Date | 25.23 Time | 345 Received by (Sign | Man | B Bal | 73 II |):(| 00 | AVG | Temp °C | 4 | ł | - | | | | |
| Sample Ma | atrix: S - Soil, Sd - | Solid, Sg - Slu | idge, A - Aqu | Jeous, O - Other | - Current - | | Container | Type: g | - glas | ss, p - p | | lastic, ag - | | er glass. | v - VO | A | | and a state of the | |

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| Email: agiovngo@emolum.com Due Date: 09/01/23 17:00 (4 day TAT) Chain of Custody (COC). Yes 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes Note: Analysis, such as ple by which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. Comments/Resolution 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Samole Turn Around Time (TAT) 7. Was a sample color received? Yes Sample Conder 8. If yes, was cooler received in good condition? Yes Yes 9. Was the sample(s) received intact, i.e., on broken? Yes Yes 10. Were custody/security seals intact? No No 11. If yes, were custody/security seals intact? No No 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6*2°C Yes Yes Somple Condition? Yes Sample Condition? Yes 13. If no visible ic | Client: | Matador Resources, LLC. Da | ate Received: | 08/28/23 | 10:00 | Work Order ID: | E308201 |
|--|-----------------|---|-----------------------|----------|---------------------|----------------|----------------|
| Chain of Custody (COC) 1. Does the sample ID match the COC? Yes 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes Note: Analysis, such as pIf which should be conduced in the field, i.e., 15 minute hold inte, are not included in this discussion. Comments/Resolution Sample Color 7 Yes 7. Was a sample cooler received? Yes 9. Was the sample(s) received in direct, i.e., or to broken? Yes 9. Was the sample received in good condition? Yes 9. Was the sample received in good condition? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intate? No 12. Was the sample received the temperature: <u>4*C</u> Sample Container 14. Are aqueous VOC samples optexent? No 15. Are VOC samples collected in the correct containers? Yes 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (HB) included for VOC analyese? Yes Sample Collected? <td< th=""><th>Phone:</th><th>(972) 371-5200 Da</th><th>ate Logged In:</th><th>08/28/23</th><th>08:59</th><th>Logged In By:</th><th>Alexa Michaels</th></td<> | Phone: | (972) 371-5200 Da | ate Logged In: | 08/28/23 | 08:59 | Logged In By: | Alexa Michaels |
| 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes 5. Were all samples received within holding time? Yes 5. Did the COC indicate standard TAT, or Expedited TAT? Yes 5. Did the COC indicate standard TAT, or Expedited TAT? Yes 6. Did the COC indicate standard TAT, or Expedited TAT? Yes 8. If yes, was cooler received in good condition? Yes 9. Was the sample (so received in tact, i.e., not broken? Yes 10. Were custody/security seals intact? No 11. If yes, were custody/security seals intact? No 12. Was the sample received in is not required, if samples are received wit 15 minutes of sampling No 13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> Sample Container 14. Are aqueous VOC samples collected in VOA vials? NA 15. Are VOC samples collected in the origines collected? Yes 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was | Email: | agiovngo@ensolum.com Du | le Date: | 09/01/23 | 17:00 (4 day TAT) | | |
| 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in thi discussion. Comments/Resolution Sample Cours Yes Sample Course the number of sample specified TAT? Yes 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Yes 8. If yes, was cooler received in good condition? Yes Yes 9. Was the sample(s) received intact, i.e., not broken? Yes Yes Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling No 11. If yes, were custody/security seals intact? Na 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6*#2°C Yes Sample Container Yes 13. If no visible ice, record the temperature. 4*C Sample Container Yes 14. Are aquecous VOC samples collected in NOA Vials? NA 15. Are VOC samples collected? Yes Yes <t< td=""><td>Chain of</td><td>Custody (COC)</td><td></td><td></td><td></td><td></td><td></td></t<> | Chain of | Custody (COC) | | | | | |
| 2. Does the number of samples per sampling site location match the COC Yes Were samples dropped off by client or carrier? Yes 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 discussion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes 8. If yes, was cooler received in good condition? Yes 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes Note: Standard Sample cooler with in softward? Note: Standard Sample cooler intact, i.e., not broken? Yes Note: Standard Sample cooler of the temperature? Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4" Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was at place to olume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample Collected? Yes Collectors name? Yes Sample Collected? Yes Sample Collected? Yes Yes Collectors name? Yes No No 1. Does the COC or field labels indicate the samples were preserved? NA 2. Are sample(s) correctly preserved? NA 2. Are sample(s) correctly preserved? NA 2. Are sample(s) correctly preserved? NA 2. Are sample for the correct containers? Yes Sample Collected? Sample Collected? | 1. Does th | he sample ID match the COC? | | Yes | | | |
| 3. Were samples dropped off by client or carrier? Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion. Sample Tour 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 intact? No 11. If yes, were custody/security seals intact? No 11. If yes, were custody/security seals intact? No 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wi 15 minutes of samples 13. If no visible ice, record the temperature. Actual sample temperature: 4 °C Sample Container 14. Are aquecous VOC samples received in (pea sized or less)? NA 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Sample ID ? 10. Were field sample labels filled out with the minimum information: Sample ID ? Sample ID ? | | • | the COC | Yes | | | |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes 5. Were all samples received within holding time? Yes Note: Analysis, such appl Which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler received? Yes 8. If yes, was cooler received in good condition? Yes 10. Were custody/security seals present? No 11. If yes, ware 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 wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4° C Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in the correct containers? Yes 10. Is the bead space less than 6-8 mm (pea sized or less)? NA 16. Is the head space collected in the correct containers? Yes 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 Sample Collected? Yes Field Label 21. Does the COC or field labels indicate the samples were preserved? No 21. Does the COC or field labels indicate the samples were preserved? No 21. Does the COC or field labels indicate the samples were preserved? No 21. Does the COC or field labels indicate the samples were preserved? No 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | 3. Were s | amples dropped off by client or carrier? | | | Carrier: Courier | | |
| Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. Sample Coler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received instat, i.e., not broken? 9. Was the sample(s) received instat, i.e., not broken? 10. Were custody/security seals present? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ico? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wi 15 minutes of sampling 13. If no visible ice, record the temperature: 4°C Sample Container 14. Are aqueous VOC samples present? 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Are sample(s) correctly preserved? 24. Are sample(s) correctly preserved? 25. Are sample(s) correctly preserved? 26. Collectors preserved? 27. Are sample(s) correctly preserved? 28. Collectors preserved? 29. Collectors preserved? 20. Are sample(s) correctly pr | 4. Was the | e COC complete, i.e., signatures, dates/times, requested | l analyses? | Yes | | | |
| 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler Sample cooler received? Yes 7. Was a sample cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Not: Thermal preservation is not required, if samples are received wi 15 minutes of sampling minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> Xes Fadd courses 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 Field Label Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Collectors name? Yes Collectors name? Yes Sample ID? Yes Sample ID? Yes Coll | 5. Were a | Note: Analysis, such as pH which should be conducted in the | e field, | Yes | | Commen | ts/Resolution |
| 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., ont broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Mote: Thermal preservation is not required, if samples are received wii 15 minutes of sampling NA 13. If no visible ice, record the temperature: 4°C Yes Sample Container No 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Coll | Sample T | <u>Furn Around Time (TAT)</u> | | | | | |
| 7. Was a sample cooler received? Yes 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intatt? No 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling No 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Yes Sample Container No 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes 20. Were field sample labels filled out with the minimum information: Yes Sample D? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes | 6. Did the | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | |
| 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Not: Thermal preservation is not required, if samples are received wiri 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No 15. Are QOC 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 Field Label Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Sample ID? Yes Date/Time Collected? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No | Sample C | <u>Cooler</u> | | | | | |
| 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling Yes 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Yes Sample Container No 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 9. Is the appropriate volume/weight or number of sample containers collected? Yes Date/Time Collected? Yes Outer/Time Collected? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes C | 7. Was a s | sample cooler received? | | Yes | | | |
| 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling Item is the received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container Sample Container No 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Sample ID? Yes Collectors name? Yes Collectors name? Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No | 8. If yes, | was cooler received in good condition? | | Yes | | | |
| 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received 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 Field Label Yes 20. Were field sample labels filled out with the minimum information: Yes Sample D? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserve? No 22. Are sample(s) correctly preserved? No 22. Are sample(s) correctly preserved? NA | 9. Was the | e sample(s) received intact, i.e., not broken? | | Yes | | | |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 9. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label Zoue Time Collected? Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Sample Preservation Yes Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No 22. Are sample(s) correctly preserved? Na | 10. Were | custody/security seals present? | | No | | | |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Yes Sample Container ************************************ | 11. If yes, | , were custody/security seals intact? | | NA | | | |
| 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label Yes 20. Were field sample labels filled out with the minimum information: Yes Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | 12. Was th | Note: Thermal preservation is not required, if samples are real | | | | | |
| 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? Collectors name? Yes 20. Were field sample labels filled out with the minimum information: Sample ID? 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 | 12 If no. | | nnoroturo: 1º | c | | | |
| 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Collectors name? Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Collectors name? Yes 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? No 22. Are sample(s) correctly preserved? Na | | | nperature. <u>4 v</u> | <u>c</u> | | | |
| 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label Yes 20. Were field sample labels filled out with the minimum information: Yes Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | | | No | | | |
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| 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 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? 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? No | | - | | | | | |
| 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | | | | | | |
| Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | - | collected? | | | | |
| 20. Were field sample labels filled out with the minimum information: Yes Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | | concettu: | 105 | | | |
| Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | | ation | | | | |
| Date/Time Collected? Yes Collectors name? Yes Sample Preservation Yes 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | - | | Yes | | | |
| Sample Preservation No 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | | | | | L | | |
| 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA | С | Collectors name? | | Yes | | | |
| 22. Are sample(s) correctly preserved? NA | | | | | | | |
| | | | rved? | | | | |
| 24 Is lab tilteration required and/or requested for discolved metals? | | | 1.0 | | | | |
| 24. Is tab interation required and/or requested for dissolved inerals: NO | 24. Is lab | filteration required and/or requested for dissolved meta | us? | No | | | |
| Multiphase Sample Matrix | | | | | | | |
| 26. Does the sample have more than one phase, i.e., multiphase? No | | | | No | | | |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? NA | 27. If yes | , does the COC specify which phase(s) is to be analyzed | d? | NA | | | |
| Subcontract Laboratory | <u>Subcontr</u> | ract Laboratory | | | | | |
| 28. Are samples required to get sent to a subcontract laboratory? No | 28. Are sa | amples 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 | 29. Was a | a subcontract laboratory specified by the client and if so | who? | NA | Subcontract Lab: NA | | |
| <u>Client Instruction</u> | <u>Client I</u> | nstruction | | | | | |

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Margarita Federal 13 Com #005H

5

Work Order: E310009

Job Number: 23052-0001

Received: 10/3/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/9/23

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: 10/9/23

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

Project Name: Margarita Federal 13 Com #005H Workorder: E310009 Date Received: 10/3/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2023 8:15:00AM, under the Project Name: Margarita Federal 13 Com #005H.

The analytical test results summarized in this report with the Project Name: Margarita Federal 13 Com #005H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

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

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

Envirotech Web Address: www.envirotech-inc.com



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| | | Sample Sum | mary | |
|------------------------------|---------------|------------------|--------------------------------|----------------|
| Matador Resources, LLC. | | Project Name: | Margarita Federal 13 Com #005H | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | | Project Manager: | Ashley Giovengo | 10/09/23 11:53 |
| | | 5 6 | | |
| Client Sample ID | Lab Sample ID | Matrix | Sampled Received | Container |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS08 - 1' | E310009-01A | Soil | 09/29/23 | 10/03/23 | Glass Jar, 4 oz. |
| FS13 - 1' | E310009-02A | Soil | 09/29/23 | 10/03/23 | Glass Jar, 4 oz. |



| | \sim | ampie D | aca | | | |
|---|-----------------------------|------------|------------------------------|----------------------|----------|-----------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | Project Name Project Num | | garita Federal 13 52-0001 | Com #005H | | Reported: |
| Dallas TX, 75240 | Project Mana | | ley Giovengo | 10/9/2023 11:53:43AN | | |
| Danas 177, 752+0 | Troject Wall | igei. Asii | ley Glovengo | | | 10/7/2023 11:35:15/11 |
| | | FS08 - 1' | | | | |
| | | E310009-01 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analys | st: IY | | Batch: 2340046 |
| Benzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Foluene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| p-Xylene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 10/03/23 | 10/05/23 | |
| Fotal Xylenes | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 98.6 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analys | st: IY | | Batch: 2340046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 94.3 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analys | st: KM | | Batch: 2340060 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 10/04/23 | 10/06/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 10/04/23 | 10/06/23 | |
| Surrogate: n-Nonane | | 105 % | 50-200 | 10/04/23 | 10/06/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | st: BA | | Batch: 2340074 |
| Chloride | 358 | 20.0 | 1 | 10/04/23 | 10/05/23 | |
| | | | | | | |

Sample Data



Sample Data

| | D | | ata | | | |
|---|--|------------|--|-----------|----------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name Project Numł Project Mana | ber: 230 | garita Federal 13 52-0001 ley Giovengo | Com #005H | | Reported: 10/9/2023 11:53:43AM |
| | | FS13 - 1' | | | | |
| | | E310009-02 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analys | t: IY | | Batch: 2340046 |
| Benzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Toluene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| p-Xylene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 10/03/23 | 10/05/23 | |
| Fotal Xylenes | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 96.6 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analys | t: IY | | Batch: 2340046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 92.9 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analys | t: KM | | Batch: 2340060 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 10/04/23 | 10/05/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 10/04/23 | 10/05/23 | |
| Surrogate: n-Nonane | | 100 % | 50-200 | 10/04/23 | 10/05/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | t: BA | | Batch: 2340074 |
| Chloride | 369 | 20.0 | 1 | 10/04/23 | 10/05/23 | |
| | | | | | | |

QC Summary Data

| | | | | 1.1.0 ~ | | | | |
|--------|--|---|---|---|---|---|--|--|
| | - | | e | ral 13 Com | 1 #005H | | | Reported: |
| | 5 | | | | | | | |
| | Project Manager: | As | shley Gioveng | go | | | | 10/9/2023 11:53:43AN |
| | Volatile Or | rganics b | oy EPA 802 | 21B | | | | Analyst: IY |
| Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| | | | | | | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0500 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| 7.63 | | 8.00 | | 95.4 | 70-130 | | | |
| | | | | | | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.16 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| 5.08 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| 5.11 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| 10.3 | 0.0500 | 10.0 | | 103 | 70-130 | | | |
| 15.5 | 0.0250 | 15.0 | | 103 | 70-130 | | | |
| 7.74 | | 8.00 | | 96.7 | 70-130 | | | |
| | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.12 | 0.0250 | 5.00 | ND | 102 | 54-133 | | | |
| 5.06 | 0.0250 | 5.00 | ND | 101 | 61-133 | | | |
| 5.11 | 0.0250 | 5.00 | ND | 102 | 61-130 | | | |
| 5.07 | 0.0250 | 5.00 | ND | 101 | 63-131 | | | |
| 10.3 | 0.0500 | 10.0 | ND | 103 | 63-131 | | | |
| 15.4 | 0.0250 | 15.0 | ND | 103 | 63-131 | | | |
| 7.67 | | 8.00 | | 95.9 | 70-130 | | | |
| | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.30 | 0.0250 | 5.00 | ND | 106 | 54-133 | 3.48 | 20 | |
| 5.26 | 0.0250 | 5.00 | ND | 105 | 61-133 | 3.78 | 20 | |
| 5.31 | 0.0250 | 5.00 | ND | 106 | 61-130 | 3.77 | 20 | |
| 5.26 | 0.0250 | 5.00 | ND | 105 | 63-131 | 3.66 | 20 | |
| | | | | | | | | |
| 10.7 | 0.0500 | 10.0 | ND | 107 | 63-131 | 3.72 | 20 | |
| | ND ND ND ND ND 7.63 5.16 5.08 5.15 5.11 10.3 15.5 7.74 5.12 5.06 5.11 5.07 10.3 15.4 7.67 5.30 5.26 | Result mg/kg Reporting Limit mg/kg ND 0.0250 7.63 0.0250 5.16 0.0250 5.17 0.0250 5.18 0.0250 5.19 0.0250 5.11 0.0250 5.12 0.0250 5.11 0.0250 5.12 0.0250 5.11 0.0250 5.12 0.0250 5.11 0.0250 5.06 0.0250 5.07 0.0250 10.3 0.0500 15.4 0.0250 15.4 0.0250 5.26 0.0250 | Project Number: 23 Project Manager: 24 Attribution Volatile Organics I Result Reporting mg/kg Spike Level mg/kg ND 0.0250 S.16 0.0250 S.00 5.00 5.15 0.0250 S.11 0.0250 S.12 0.0250 S.13 0.0250 S.14 0.0250 S.15 0.0250 S.16 0.0250 S.17 0.0250 S.00 5.00 S.11 0.0250 S.02 5.00 S.03 0.0500 S.04 5.00 S.05 5.00 S.06 | Project Number: 23052-0001 Project Manager: Ashley Gioveng Volatile Organics by EPA 802 Result Spike Source Result mg/kg mg/kg mg/kg ND 0.0250 ND S.16 0.0250 5.00 S.15 0.0250 5.00 S.15 0.0250 5.00 S.11 0.0250 5.00 S.12 0.0250 5.00 S.13 0.0250 5.00 S.14 0.0250 5.00 S.15 0.0250 5.00 S.11 0.0250 5.00 S.11 0.0250 5.00 < | Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting Limit Spike Level Source Result Rec mg/kg mg/kg mg/kg mg/kg % ND 0.0250 mp/kg mg/kg mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 5.00 103 0.0250 S.16 0.0250 5.00 103 5.15 0.0250 5.00 103 5.16 0.0250 5.00 103 5.17 0.0250 5.00 103 5.18 0.0250 5.00 ND 101 5.17 0.0250 5.00 <td>Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source Result mg/kg Rec Limits mg/kg ND 0.0250 mg/kg mg/kg mg/kg % % ND 0.0250 nb nb % % ND 0.0250 nb nb % % ND 0.0250 nb 103 70-130 ND 0.0250 nb 102 70-130 ND 0.0250 103 70-130 ND 0.0250 103 70-130 S.16 0.0250 5.00 103 70-130 S.15 0.0250 5.00 103 70-130 S.11 0.0250 5.00 103 70-130 S.12 0.0250 5.00 103 70-130 S.15 0.0250 5.00 ND 103 70-130</td> <td>Project Number: 23052-0001 Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting Limit Spike Level Source Result Rec Limits Rep % % Mg/kg mg/kg mg/kg Mg/kg % % % ND 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND ND ND ND 0.0250 ND 0.0250 ND Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.17 <</td> <td>Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting mg/kg Spike Source Rec Rec RPD RPD Limit mg/kg mg/kg mg/kg %</td> | Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source Result mg/kg Rec Limits mg/kg ND 0.0250 mg/kg mg/kg mg/kg % % ND 0.0250 nb nb % % ND 0.0250 nb nb % % ND 0.0250 nb 103 70-130 ND 0.0250 nb 102 70-130 ND 0.0250 103 70-130 ND 0.0250 103 70-130 S.16 0.0250 5.00 103 70-130 S.15 0.0250 5.00 103 70-130 S.11 0.0250 5.00 103 70-130 S.12 0.0250 5.00 103 70-130 S.15 0.0250 5.00 ND 103 70-130 | Project Number: 23052-0001 Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting Limit Spike Level Source Result Rec Limits Rep % % Mg/kg mg/kg mg/kg Mg/kg % % % ND 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND ND ND ND 0.0250 ND 0.0250 ND Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.16 0.0250 5.00 102 70-130 Prepared: 1 5.16 0.0250 5.00 103 70-130 Prepared: 1 5.17 < | Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting mg/kg Spike Source Rec Rec RPD RPD Limit mg/kg mg/kg mg/kg % |



QC Summary Data

| | | QU D | umm | ary Data | | | | | |
|---|--------|----------------------------------|----------------|-------------------------------|-----------|---------------|-------------|--------------|----------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | | Project Name: Project Number: | | Margarita Feder 23052-0001 | al 13 Com | #005H | | | Reported: |
| Dallas TX, 75240 | | Project Manager | : 4 | Ashley Gioveng | go | | | | 10/9/2023 11:53:43AM |
| | Noi | nhalogenated (| Organics | by EPA 80 | 15D - GI | RO | | | Analyst: IY |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2340046-BLK1) | | | | | | | Prepared: 1 | 0/03/23 A | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.55 | | 8.00 | | 94.4 | 70-130 | | | |
| LCS (2340046-BS2) | | | | | | | Prepared: 1 | 0/03/23 A | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 50.9 | 20.0 | 50.0 | | 102 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.54 | | 8.00 | | 94.3 | 70-130 | | | |
| Matrix Spike (2340046-MS2) | | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 53.2 | 20.0 | 50.0 | ND | 106 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.53 | | 8.00 | | 94.1 | 70-130 | | | |
| Matrix Spike Dup (2340046-MSD2) | | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 52.9 | 20.0 | 50.0 | ND | 106 | 70-130 | 0.496 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.41 | | 8.00 | | 92.7 | 70-130 | | | |



QC Summary Data

| | | QC D | u 111111 | ary Data | 4 | | | | |
|---|-----------------|--|-------------------------|---|----------|--------------------|-------------|-------------------|---------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | | Margarita Feder 23052-0001 Ashley Gioveng | | n #005H | | | Reported: 10/9/2023 11:53:43AM |
| | Nonh | alogenated Org | anics b | y EPA 8015D | - DRO | /ORO | | | Analyst: KM |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2340060-BLK1) | | | | | | | | | Analyzed: 10/05/23 |
| , | | | | | | | Tiepareu. T | 0/04/23 F | maryzeu. 10/03/23 |
| Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36) | ND ND | 25.0 50.0 | | | | | | | |
| Surrogate: n-Nonane | 51.6 | 50.0 | 50.0 | | 103 | 50-200 | | | |
| LCS (2340060-BS1) | 21.0 | | | | | | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Diesel Range Organics (C10-C28) | 241 | 25.0 | 250 | | 96.5 | 38-132 | | | |
| Surrogate: n-Nonane | 52.4 | | 50.0 | | 105 | 50-200 | | | |
| Matrix Spike (2340060-MS1) | | | | Source: | E310013- | 01 | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Diesel Range Organics (C10-C28) | 372 | 50.0 | 250 | 95.1 | 111 | 38-132 | | | |
| Surrogate: n-Nonane | 50.9 | | 50.0 | | 102 | 50-200 | | | |
| Matrix Spike Dup (2340060-MSD1) | | | | Source: | E310013- | 01 | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Diesel Range Organics (C10-C28) | 352 | 50.0 | 250 | 95.1 | 103 | 38-132 | 5.38 | 20 | |
| Surrogate: n-Nonane | 51.4 | | 50.0 | | 103 | 50-200 | | | |



QC Summary Data

| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager | | Margarita Feder 23052-0001 Ashley Gioveng | | #005H | | | Reported: 10/9/2023 11:53: | |
|---|--------|---|----------------|---|-----------|---------------|-----------|-------------|-----------------------------------|----|
| | | Anions | by EPA | 300.0/9056A | <u> </u> | | | | Analyst: BA | |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limi | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes | |
| Blank (2340074-BLK1) | | | | | | | Prepared: | 10/04/23 | Analyzed: 10/05/2 | 23 |
| Chloride | ND | 20.0 | | | | | | | | |
| LCS (2340074-BS1) | | | | | | | Prepared: | 10/04/23 | Analyzed: 10/05/2 | 23 |
| Chloride | 249 | 20.0 | 250 | | 99.6 | 90-110 | | | | |
| Matrix Spike (2340074-MS1) | | | | Source: | E309250-(|)1 | Prepared: | 10/04/23 | Analyzed: 10/05/2 | 23 |
| Chloride | 1010 | 20.0 | 250 | 780 | 91.2 | 80-120 | | | | |
| Matrix Spike Dup (2340074-MSD1) | | | | Source: | E309250-(|)1 | Prepared: | 10/04/23 | Analyzed: 10/05/2 | 23 |
| Chloride | 1040 | 20.0 | 250 | 780 | 104 | 80-120 | 3.11 | 20 | | |

QC Summary Report Comment:

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



| Matador Resources, LLC. | Project Name: | Margarita Federal 13 Com #005H | |
|------------------------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 10/09/23 11:53 |

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

Rele

Received by OCD: 10/27/2023 9:46:57 PM

| | latador Prod | | | | | Bill To | | | 11-1 | and the second second second | 10. Sec. 1. Sec. 1. | se Or | Contraction of the local division of the loc | parts - | 3100 | - | TA | | | rogram |
|-----------------|------------------------------|----------|----------------------|-------------|---------------|---|----------------|----------|--|------------------------------|---------------------|-------------|--|------------|----------|--------|--------|----------------|-------------------------------------|-----------|
| | Matador 13 | | | 05H | - | n: Matador Product | ion Company | Lab | WO | # | 7 | Job | Num | ber | , 1D | 2D | 3D | Standar | d CWA | SDWA |
| | lanager: Asl | | 10 C | | Address: | | | _E. | Lab WO# E.310009 Job Number 23057.00 | | | | | | | X | | | | |
| | 3122 Nation | | | | City, Stat | | | - | | | | Analy | sis a | nd Meth | od | | | 1 | | RCRA |
| | e, Zip: Carls | | 88220 | _ | | (337)319-8398 | | _ | by (| | | | | | | | | | | |
| | 75-988-005 | | | | Email: c | linton.talley@matad | orresources.co | m | ORC | | AL 1 | | | | | | | | State | |
| | iovengo@e | nsolum.c | om | | | | | | RO/ | 51 | 0 | | 0.0 | | MN | | × | NM 0 | CO UT AZ | TX |
| eport di | ie by: | | | | 12. | | | | 0/0 | / 80 | 826 | 601(| e 30 | | | | TX. | × | 1.0 | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | | er | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | Remark | s |
| 14:33 | 9/29/2023 | Soil | 1 | | FSO | 8 - 1' | 1 | | | | | | | | X | | | | | |
| 14:04 | 9/29/2023 | Soil | 1 | | FS1 | 3 - 1' | 2 | | | | | | | | x | | | | | |
| | - | | | | | | | | _ | | | | | | | | | | | |
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| | | | | 1 | | | | | | | | | | | | | | | | |
| ddition | I Instruction | ns: Plea | ise CC: cl | burton@enso | lum.com, agic | ovengo@ensolum.co | m, chadhmilt | on@e | nsolu | m.co | m | | | | | | | | | |
| | | | | | | pering with or intentionally r | | ple loca | tion, | | | 1.110.00 | | | | | | | e day they are sa subsequent day | |
| | d by: (Signatur | | Date | | | Sampled by: Chad | Date | - 23 | Time | 030 | 2 | Roc | aivo | d on ice: | | ab U | se On | lγ | | |
| | d by: (Signatur | e) | Date | Time | Rece | ived by: (Signature) | Date | | Time | - | | | | off fice. | | | | T3 | | |
| linquishe | d by: (Signatur | e) | Date | Time | Rece | wed by: (Signature) | Date | | Time | | | | | | 4 | - | | 13 | | |
| mon | and the second second second | Misso | 10 | | 400 66 | utter 110 | | | | | | 1000 | - | np °C | 1 | - | | | | |
| | x: S - Soil, Sd - So | | | | place atk | annante pro mede - 11 | | | | - | | | _ | c, ag - an | | | | | ha analusta d | the about |
| ne: samp | | | | | | gements are made. Haz COC. The liability of the la | | | | | | | | | client e | expens | e. The | e report for t | ro | the above |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| | Matadag Darawaya LLC | | | | | |
|--|--|----------------------|----------|---------------------|----------------|---------------|
| Client: | | ate Received: | 10/03/23 | | Work Order ID: | E310009 |
| Phone: | | ate Logged In: | 10/03/23 | | Logged In By: | Caitlin Mars |
| Email: | agiovngo@ensolum.com D | ue Date: | 10/09/23 | 17:00 (4 day TAT) | | |
| <u>Chain of</u> | Custody (COC) | | | | | |
| | he sample ID match the COC? | | Yes | | | |
| 2. Does th | he number of samples per sampling site location match | the COC | Yes | | | |
| 3. Were sa | amples dropped off by client or carrier? | | Yes | Carrier: Courier | | |
| 4. Was the | e COC complete, i.e., signatures, dates/times, requested | l analyses? | Yes | | | |
| 5. Were a | Il samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion. | e field, | Yes | | Commen | ts/Resolution |
| Sample T | <u>Furn Around Time (TAT)</u> | | | | | |
| 6. Did the | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | |
| <u>Sample C</u> | Cooler | | | | | |
| | sample cooler received? | | Yes | | | |
| 8. If yes, | was cooler received in good condition? | | Yes | | | |
| 9. Was the | e sample(s) received intact, i.e., not broken? | | Yes | | | |
| 10. Were | custody/security seals present? | | No | | | |
| 11. If yes. | , were custody/security seals intact? | | NA | | | |
| 12. Was th | e sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling | | Yes | | | |
| 13. If no ' | visible ice, record the temperature. Actual sample te | mperature: <u>4°</u> | <u>C</u> | | | |
| Sample (| Container | - | | | | |
| | queous VOC samples present? | | No | | | |
| 15. Are V | OC samples collected in VOA Vials? | | NA | | | |
| 16. Is the | head space less than 6-8 mm (pea sized or less)? | | NA | | | |
| 17. Was a | trip blank (TB) included for VOC analyses? | | NA | | | |
| 18. Are n | on-VOC samples collected in the correct containers? | | Yes | | | |
| 19. Is the a | appropriate volume/weight or number of sample container | s collected? | Yes | | | |
| Field Lat | bel_ | | | | | |
| 20. Were | field sample labels filled out with the minimum inform | ation: | | | | |
| | ample ID? | | Yes | | | |
| | Date/Time Collected? | | Yes | | | |
| | Collectors name? | | Yes | | | |
| | Preservation the COC or field labels indicate the samples were pres | erved? | No | | | |
| | ample(s) correctly preserved? | | NA | | | |
| | filteration required and/or requested for dissolved met | als? | No | | | |
| | | | 110 | | | |
| <u>iviulupna</u> | ase Sample Matrix | • | NT- | | | |
| 26 Door | | | No | | | |
| | | ur | NA | | | |
| 27. If yes, | , does the COC specify which phase(s) is to be analyze | | | | | |
| 27. If yes, <u>Subcontr</u> | act Laboratory_ | | | | | |
| 27. If yes,<u>Subcontr</u>28. Are sa | | | No NA | Subcontract Lab: NA | | |

C

envirotech Inc.

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

Date
| lient: M | Adador Proc Matador 13 | 13 Juction C | ompany. | ralCi | m | | | | nange | d pr | pye | ct | La | b Us | e Only | Pe | r (| | | | | | | |
|---------------------|---|------------------------|------------------------------------|-----------------|-------------|-----------------|---|--------------------------------------|-------------|-------------------|--------------|----------------------------|--------------|-------------------|-------------|------------------------------|------------------------------|-----------|--------------|--------|---------------|-----------------------------|-----------------------|------|
| roject N ddress: | Aanager: As 3122 Natio | hley Giov nal Parks | rengo Hwy | J5H - | | Add City | ress: on fil , State, Zip: | : | iction Con | | Lab E. | wo# 3 00 | òà | 1 | 230 | umber SZ- s and I | 0001 Method | | 20 3 | | itandaro X | d CW | | RCRA |
| hone: 5 | e, Zip: Carls 575-988-005 giovengo@e ue by: | 5 | | | | - | ne: (337)3 ail: clinton. | 19-8398 talley@mata | adorresou | rces.con | | TPH GRO/DRO/ORO by 8015 | 8021 | 3260 | 010 | 300.0 | | NM | 74 | | NM C | Stat | all the second | x |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | | | | Lab Number | | TPH GRC 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | CDOC | | | Rema | arks | |
| 14:33 | 9/29/2023 | Soil | 1 | d ii | | | FS08 - 1' | | | 1 | | | | | | | | x | | | | | | |
| 14:04 | 9/29/2023 | Soil | 1 | | | | FS13 - 1' | | | 2 | | | | | | | | x | | | | | | |
| _ | | | | | | | | | | | | | | | _ | | | | | | | | - | |
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| ddition | al Instructio | ns: Plea | ase CC: c | burton@er | solum. | com, | agiovengo | @ensolum.d | com, chad | Ihmiltor | @en | solur | n.cor | m | | | | | | 1 | 1 | | | |
| | oler), attest to the of collection is co | | | | | | | ith or intentionall ampled by: Ch | | ; the sampl | e locati | on, | | | | - certain - | Contraction of the lot | | | | | e day they an subsequent | and the second second | or |
| 2 | ed by: (Signatur | | | | ime 1030 | | And the second se | le ten | | Date 10:2- | 23 | Time / (| 32 | > | Recei | ved or | i ice: | | Use (/ N | Only | | | | |
| Mi | ed by: (Signatur Uluuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu | up | Date 10 Date | 2-23 | INE INE | ; | Received by: | (Signature) | 40 | 10-2. Date | 23 | Time | 313 | 5 | <u>T1</u> | | | <u>T2</u> | | | <u>T3</u> | yere i s | _ | |
| Ind | 1 | misso | Contraction of the second strength | - 2-23 | 240 | 0 (| lau | He M | an | 10.3. Containe | 23 r Type | 8: 8-8 | 15 lass, | the second second | ile | emp ⁶ stic, ap | and the second second second | 4 | s, v - V | OA | | | 1977 1942 1942 | |
| ote: Samp | oles are discard | ed 30 days | after resu | Its are reporte | ed unless | other y with | arrangement this COC. The | s are made. H | azardous sa | mples will | be ret | urned | to cli | ent or | dispos | ed of a | t the cli | ent exp | ense. | The re | port for th | e analysis | of the a | bove |

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:

Margarita Federal 13 Com #005H

Work Order: E310010

Job Number: 23052-0001

Received: 10/3/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/10/23

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: 10/10/23

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

Project Name: Margarita Federal 13 Com #005H Workorder: E310010 Date Received: 10/3/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2023 8:15:00AM, under the Project Name: Margarita Federal 13 Com #005H.

The analytical test results summarized in this report with the Project Name: Margarita Federal 13 Com #005H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

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

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

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

Envirotech Web Address: www.envirotech-inc.com





Page 75 of 106

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| QC - Nonhalogenated Organics by EPA 8015D - GRO | 7 |
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| Chain of Custody etc. | 11 |

| r - | | Sample Sum | mary | | |
|---|---------------|----------------------------------|-----------------------------------|-------------|------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | | Project Name: Project Number: | Margarita Federal 1 23052-0001 | 3 Com #005H | Reported: |
| Dallas TX, 75240 | | Project Manager: | Ashley Giovengo | | 10/10/23 13:07 |
| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
| FS07 - 18" | E310010-01A | Soil | 09/29/23 | 10/03/23 | Glass Jar, 4 oz. |



| | ~ | ampie 2 | | | | |
|--|--------------|-------------|-------------------|-----------|----------|----------------------|
| Matador Resources, LLC. | Project Name | | garita Federal 13 | Com #005H | | |
| 5400 LBJ Freeway, Suite 1500 | Project Numb | | 52-0001 | | | Reported: |
| Dallas TX, 75240 | Project Mana | ger: Ash | ley Giovengo | | | 10/10/2023 1:07:45PM |
| | | FS07 - 18'' | | | | |
| | | E310010-01 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analys | t: IY | | Batch: 2340046 |
| Benzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Toluene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| o-Xylene | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 10/03/23 | 10/05/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 96.2 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analys | t: IY | | Batch: 2340046 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 10/03/23 | 10/05/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 93.2 % | 70-130 | 10/03/23 | 10/05/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analys | t: KM | | Batch: 2340061 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 10/04/23 | 10/07/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 10/04/23 | 10/07/23 | |
| Surrogate: n-Nonane | | 92.0 % | 50-200 | 10/04/23 | 10/07/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | t: BA | | Batch: 2340074 |
| Chloride | 126 | 20.0 | 1 | 10/04/23 | 10/05/23 | |
| | | | | | | |

Sample Data



QC Summary Data

| | Project Name: Project Number: Project Manager: | 23 | 052-0001 | | a #005H | | | Reported: 10/10/2023 1:07:45PM |
|--------|---|--|---|---|--|--|--|---|
| | Volatile Or | rganics b | y EPA 802 | 21B | | | | Analyst: IY |
| Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| | | | | | | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| ND | 0.0500 | | | | | | | |
| ND | 0.0250 | | | | | | | |
| 7.63 | | 8.00 | | 95.4 | 70-130 | | | |
| | | | | | | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.16 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| 5.08 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| 5.11 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| 10.3 | 0.0500 | 10.0 | | 103 | 70-130 | | | |
| 15.5 | 0.0250 | 15.0 | | 103 | 70-130 | | | |
| 7.74 | | 8.00 | | 96.7 | 70-130 | | | |
| | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.12 | 0.0250 | 5.00 | ND | 102 | 54-133 | | | |
| 5.06 | 0.0250 | 5.00 | ND | 101 | 61-133 | | | |
| 5.11 | 0.0250 | 5.00 | ND | 102 | 61-130 | | | |
| 5.07 | 0.0250 | 5.00 | ND | 101 | 63-131 | | | |
| 10.3 | 0.0500 | 10.0 | ND | 103 | 63-131 | | | |
| 15.4 | 0.0250 | 15.0 | ND | 103 | 63-131 | | | |
| 7.67 | | 8.00 | | 95.9 | 70-130 | | | |
| | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 A | Analyzed: 10/05/23 |
| 5.30 | 0.0250 | 5.00 | ND | 106 | 54-133 | 3.48 | 20 | |
| 5.26 | 0.0250 | 5.00 | ND | 105 | 61-133 | 3.78 | 20 | |
| 5.31 | 0.0250 | 5.00 | ND | 106 | 61-130 | 3.77 | 20 | |
| 5.26 | 0.0250 | 5.00 | ND | 105 | 63-131 | 3.66 | 20 | |
| | | | | | | | | |
| 10.7 | 0.0500 | 10.0 | ND | 107 | 63-131 | 3.72 | 20 | |
| | mg/kg ND ND ND ND ND 7.63 5.16 5.08 5.15 5.11 10.3 15.5 7.74 5.12 5.06 5.11 5.07 10.3 15.4 7.67 5.30 5.26 5.31 | Solution Project Number: Project Manager: Volatile On Result mg/kg Reporting Limit mg/kg ND 0.0250 S.16 0.0250 5.15 0.0250 5.15 0.0250 5.15 0.0250 5.11 0.0250 5.12 0.0250 5.06 0.0250 5.11 0.0250 5.12 0.0250 5.11 0.0250 5.06 0.0250 5.11 0.0250 5.02 0.0250 5.13 0.0250 5.14 0.0250 5.15 0.0250 5.16 0.0250 5.17 0.0250 5.18 0.0250 | Project Number: 23 Project Manager: As Volatile Organics h Result Reporting mg/kg Spike mg/kg ND 0.0250 S.16 0.0250 5.00 5.00 5.15 0.0250 5.15 0.0250 5.14 0.0250 5.15 0.0250 5.16 0.0250 5.17 0.0250 5.18 0.0250 5.19 5.00 5.11 0.0250 5.02 5.00 5.11 0.0250 5.02 5.00 5.03 0.0500 10.3 0.0500 | Project Number: 23052-0001 Project Manager: Ashley Gioveng Volatile Organics by EPA 802 Result Reporting Spike Source mg/kg mg/kg mg/kg mg/kg ND 0.0250 ND ND 0.0250 S00 ND 0.0250 S00 ND 0.0250 S00 S.16 0.0250 5.00 S.15 0.0250 S.00 S.16 0.0250 S.00 S.17 0.0250 S.00 S.18 0.0250 S.00 S.19 0.0250 S.00 S.11 0.0250 S.00 S.06 S.025 | Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting Limit Spike Level Source Result Rec mg/kg mg/kg mg/kg mg/kg % ND 0.0250 mg/kg mg/kg mg/kg % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 103 ND 0.0250 103 102 S.16 0.0250 5.00 103 S.08 0.0250 5.00 103 S.15 0.0250 5.00 103 S.11 0.0250 5.00 103 S.13 0.0250 5.00 ND 102 S.14 0.0250 5.00 ND 102 S.15 0.0250 5.00 ND 102 S.16 0.0250 5.00 ND 102 S.11 0. | Project Number: 23052-0001 Project Manager: Ashley Giovengo Ulatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source Result mg/kg Rec ND 0.0250 mg/kg mg/kg % % ND 0.0250 seasult Rec Limits ND 0.0250 seasult 70-130 S.16 0.0250 5.00 seasult 70-130 S.15 0.0250 5.00 seasult 70-130 S.16 0.0250 5.00 seasult 70-130 S.11 0.0250 5.00 seasult 70-130 S.12 0.0250 5.00 ND 103 70-130 | Project Number: 23052-0001 Project Manager: Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting Mg/kg Spike Mg/kg Source Mg/kg Rec Mg/kg Rec Mg/kg Rec Mg/kg Rep Mg/kg ND 0.0250 mg/kg mg/kg M M ND 0.0250 ND 0.0250 ND ND ND 0.0250 ND 0.0250 ND Prepared: 1 7.63 8.00 95.4 70-130 70-130 7.63 8.00 95.4 70-130 70-130 5.16 0.0250 5.00 103 70-130 5.15 0.0250 5.00 103 70-130 5.15 0.0250 5.00 103 70-130 5.15 0.0250 5.00 103 70-130 5.15 0.0250 5.00 103 70-130 5.15 0.0250 5.00 103 70-130 7.74 8.00 | Project Number: 23052-0001 Ashley Giovengo Volatile Organics by EPA 8021B Result Reporting mg/kg Spike Mg/kg Source Mg/kg Rec % Rec % RPD % RPD % RPD % RPD % ND 0.0250 mg/kg mg/kg % |

QC Summary Data

| | | QU N | umm | ary Data | | | | | |
|---|--------|----------------------------------|----------------|-------------------------------|-----------|---------------|-------------|--------------|---------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | | Project Name: Project Number: | | Margarita Feder 23052-0001 | al 13 Com | #005H | | | Reported: |
| Dallas TX, 75240 | | Project Manager | : A | Ashley Gioveng | <u>go</u> | | | 1 | 0/10/2023 1:07:45PM |
| | Noi | | Analyst: IY | | | | | | |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2340046-BLK1) | | | | | | | Prepared: 1 | 0/03/23 Ar | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.55 | | 8.00 | | 94.4 | 70-130 | | | |
| LCS (2340046-BS2) | | | | | | | Prepared: 1 | 0/03/23 Ar | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 50.9 | 20.0 | 50.0 | | 102 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.54 | | 8.00 | | 94.3 | 70-130 | | | |
| Matrix Spike (2340046-MS2) | | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 Ar | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 53.2 | 20.0 | 50.0 | ND | 106 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.53 | | 8.00 | | 94.1 | 70-130 | | | |
| Matrix Spike Dup (2340046-MSD2) | | | | Source: | E310011-2 | 21 | Prepared: 1 | 0/03/23 Ar | nalyzed: 10/05/23 |
| Gasoline Range Organics (C6-C10) | 52.9 | 20.0 | 50.0 | ND | 106 | 70-130 | 0.496 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.41 | | 8.00 | | 92.7 | 70-130 | | | |



QC Summary Data

| | | QC D | u I I I I I I | ary Data | 4 | | | | |
|---|-----------------|--|-------------------------|---|----------|--------------------|-------------|-------------------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | | Margarita Feder 23052-0001 Ashley Gioveng | | n #005H | | | Reported: 10/10/2023 1:07:45PM |
| | Nonh | alogenated Org | anics b | y EPA 8015D | - DRO | /ORO | | | Analyst: KM |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2340061-BLK1) | | | | | | | Prepared: 1 | 0/04/23 A | Analyzed: 10/07/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 47.7 | | 50.0 | | 95.4 | 50-200 | | | |
| LCS (2340061-BS1) | | | | | | | Prepared: 1 | 0/04/23 A | Analyzed: 10/07/23 |
| Diesel Range Organics (C10-C28) | 259 | 25.0 | 250 | | 104 | 38-132 | | | |
| Surrogate: n-Nonane | 58.2 | | 50.0 | | 116 | 50-200 | | | |
| Matrix Spike (2340061-MS1) | | | | Source: | E310012- | 04 | Prepared: 1 | 0/04/23 A | Analyzed: 10/07/23 |
| Diesel Range Organics (C10-C28) | 328 | 25.0 | 250 | 55.2 | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 61.0 | | 50.0 | | 122 | 50-200 | | | |
| Matrix Spike Dup (2340061-MSD1) | | | | Source: | E310012- | 04 | Prepared: 1 | 0/04/23 A | Analyzed: 10/07/23 |
| Diesel Range Organics (C10-C28) | 314 | 25.0 | 250 | 55.2 | 104 | 38-132 | 4.26 | 20 | |
| Surrogate: n-Nonane | 48.4 | | 50.0 | | 96.8 | 50-200 | | | |



QC Summary Data

| | | ~ ~ | | • | | | | | |
|---------------------------------|--------|--------------------|----------------|------------------|------------|---------------|-------------|--------------|----------------------|
| Matador Resources, LLC. | | Project Name: | l | Margarita Feder | ral 13 Com | #005H | | | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 2 | 23052-0001 | | | | | • |
| Dallas TX, 75240 | | Project Manager | : / | Ashley Gioveng | go | | | | 10/10/2023 1:07:45PM |
| | | Anions | by EPA | 300.0/9056 | 4 | | | | Analyst: RAS |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2340074-BLK1) | | | | | | | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2340074-BS1) | | | | | | | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Chloride | 249 | 20.0 | 250 | | 99.6 | 90-110 | | | |
| Matrix Spike (2340074-MS1) | | | | Source: | E309250- | 01 | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Chloride | 1010 | 20.0 | 250 | 780 | 91.2 | 80-120 | | | |
| Matrix Spike Dup (2340074-MSD1) | | | | Source: | E309250- | 01 | Prepared: 1 | 0/04/23 A | Analyzed: 10/05/23 |
| Chloride | 1040 | 20.0 | 250 | 780 | 104 | 80-120 | 3.11 | 20 | |

QC Summary Report Comment:

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



| Matador Resources, LLC. | Project Name: | Margarita Federal 13 Com #005H | |
|------------------------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 10/10/23 13:07 |

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.



| Client: | Matador Proc | duction C | ompany. | | | Bill To | | | | N. | Lab | Us | e On | у | | | | TA | AT | | EPA P | rogram |
|-----------------|------------------------|-----------------|----------------------|---|-------------|--|--------------|---------------|-----------|----------------------------|--------------|-------------|-------------|----------------|------------|-----------|--------|-------|------------|-----------|------------------------------|----------|
| | Matador 1 | | | 05H | At | tention: Matador Prod | uction Cor | npany | Lab | WO# | 18. L. | | Job N | lumbe | er . | 1D | 2D | 3D | Stand | dard | CWA | SDWA |
| | Manager: As | | | | | dress: on file | | | E3 | ilox | 010 | | 230 | 52.1 | 1000 | | | | X | | | |
| | : 3122 Natio | | | | | y, State, Zip: | | | | | | F | Analys | is and | Method | t | | | | | | RCRA |
| | te, Zip: Carls | | 88220 | | Ph | one: (337)319-8398 | | | | by | | | | | | | | | | | | |
| | 575-988-005 | | | | En | nail: clinton.talley@ma | tadorresou | rces.con | | ORO | | | | | | | | | | | State | |
| | giovengo@e | nsolum.c | om | | | | | | | RO/ | 5 | . | _ | 0.0 | | MM | | × | N | N CO | UT AZ | TX |
| Report | lue by: | | _ | | | | | | | d/0 | / 80: | 826 | 601(| e 30 | | | | 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 | | GDOC | | | Remarks | |
| 11:47 | 9/29/2023 | Soil | 1 | | | FS07 - 18" | | 1 | | | | | | | | x | | | | | | Page |
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| | | 10 million (14) | | | | | | | | | | | | | | | | | | | | |
| Addition | al Instructio | ns: Plea | se CC: c | hurton@enso | lum con | n, agiovengo@ensolum | com cha | dhmilton | () @en | solun | | _ | | | _ | - | - | | | | _ | |
| | | | | | | i, agiovengoe ensolum | icom, enu | anninton | ie chi | Join | meon | | | | 1 | | | | | | | |
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| elinquish | ed by: (Signatur | er | Date | | | Received by: (Signature) | 000 | 10.2. Date | 65 | Time | 15 | - | <u>T1</u> | | | <u>T2</u> | | | <u>T3</u> | | | |
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| amples is | applicable only | to those sa | anter resu | eived by the laby | inless othe | er arrangements are made. h this COC. The liability of th | Hazardous sa | imples will | o the | urned | to clier | nt or | r dispo | sed of a | at the cli | ent e | xpense | e. Th | e report f | or the ar | halysis of t | ne above |
| nples is | applicable only | to those sa | imples rec | eived by the labo | ratory wit | h this COC. The liability of th | e laboratory | is limited t | o the a | moun | t paid f | oro | on the | report. | | | | | | | | te |
| | | | | | | | | | | | | | - | 3 | | | - | - | | | - | - |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| Client: | Matador Resources, LLC. Da | te Received: | 10/03/23 | 08:15 | | Work | Order ID: | E310010 |
|-----------------|--|---------------|----------|-----------------|-------------------|------|-----------|---------------|
| Phone: | (972) 371-5200 Da | te Logged In: | 10/03/23 | 09:39 | | Logg | ed In By: | Caitlin Mars |
| Email: | | e Date: | | 17:00 (4 day TA | AT) | _~88 | | |
| Chain o | f Custody (COC) | | | | | | | |
| 1. Does | the sample ID match the COC? | | Yes | | | | | |
| | the number of samples per sampling site location match t | the COC | Yes | | | | | |
| 3. Were | samples dropped off by client or carrier? | | Yes | Carrie | r: <u>Courier</u> | | | |
| 4. Was tl | he COC complete, i.e., signatures, dates/times, requested | analyses? | Yes | | | | | |
| 5. Were | all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion. | field, | Yes | | | | Comment | ts/Resolution |
| Sample | <u>Turn Around Time (TAT)</u> | | | | | | | |
| 6. Did th | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | | | |
| Sample | <u>Cooler</u> | | | | | | | |
| 7. Was a | sample cooler received? | | Yes | | | | | |
| 8. If yes, | , was cooler received in good condition? | | Yes | | | | | |
| 9. Was th | he sample(s) received intact, i.e., not broken? | | Yes | | | | | |
| 10. Were | e custody/security seals present? | | No | | | | | |
| 11. If ye | s, were custody/security seals intact? | | NA | | | | | |
| 12. Was t | he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec | | Yes | | | | | |
| 13 Ifno | minutes of sampling visible ice, record the temperature. Actual sample tem | nerature: 4º | C | | | | | |
| | Container | | <u> </u> | | | | | |
| - | aqueous VOC samples present? | | No | | | | | |
| | VOC samples collected in VOA Vials? | | NA | | | | | |
| | e head space less than 6-8 mm (pea sized or less)? | | NA | | | | | |
| | a trip blank (TB) included for VOC analyses? | | NA | | | | | |
| | non-VOC samples collected in the correct containers? | | Yes | | | | | |
| | appropriate volume/weight or number of sample containers | collected? | Yes | | | | | |
| Field La | | | | | | | | |
| | e field sample labels filled out with the minimum information of the same of t | ation: | | | | | | |
| | Sample ID? | | Yes | | | | | |
| | Date/Time Collected? | | Yes | | | | | |
| | Collectors name? | | Yes | | | | | |
| | Preservation | | • • | | | | | |
| | s the COC or field labels indicate the samples were presented as the constant of the presented of the same state of the | rvea? | No | | | | | |
| | sample(s) correctly preserved? | 169 | NA | | | | | |
| | b filteration required and/or requested for dissolved meta | 15 : | No | | | | | |
| _ | ase Sample Matrix | | | | | | | |
| | s the sample have more than one phase, i.e., multiphase? | 10 | No | | | | | |
| 27. If ye | s, does the COC specify which phase(s) is to be analyzed | 17 | NA | | | | | |
| | ract Laboratory | | | | | | | |
| | 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 | | | |
| <u>Client l</u> | Instruction | | | | | | | |
| | | | | | | | | |



Date

envirotech Inc.

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

| | nformation | 12 | D 1 | - 0 | 2 | | | 1 | | ain of (| | | | | | | | | | | 0 | - | | | Page_ |
|--|---|--|----------------------|---------------------|-------------|---|---------------------------|--|---------------------|--|--------|---------|----------------------------|--------------|-------------|-------------|----------------|----------|-------------------------|----------|------------|--------|------------------|---------------------------------|----------------|
| Client: N | Matador Prod | duction C | ompany. | ray | Con | 1 #(| COPH | Bill Te | | na | ng | red | <u>_</u> | 200 | tus | + On | no | m | ef | er | C | . B | untor | T IO | 19/2 rogram |
| the second s | Matador-1 | and the second se | | 05H | | the second se | | tador Pro | duction Con | | | Lab V | NO# | | | Job | Numb | er | 10 | | 3D | | andard | CWA | SDWA |
| | Manager: As 3122 Natio | | | | | State of the local division of the | ss: on file tate, Zip: | the second s | | - | - | E3 | 100 | 210 | | Section 199 | sis and | | CONTRACTOR OF THE OWNER | - | | L | X | | RCRA |
| Co. In the second second | te, Zip: Carls | and the second s | 88220 | | | Phone | : (337)3: | 19-8398 | | - Speeler | | | M | 1 | | | | T | | 1 | | | | | |
| Section of the section of the | 575-988-005 giovengo@e | and the second sec | om | | | Email: | clinton.t | talley@m | atadorresou | urces.c | :om | | 0/080 | | | | 0 | | V | | | | NM CO | State | TX |
| Report d | | | | | | 1 | | ing contraction | | _ | | | IO/DR | y 8021 | 8260 | 6010 | e 300. | | NN | | TX | | × | UT The | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | , | | t | | | Lab Numl | A Lora | | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | | Remarks | |
| 11:47 | 9/29/2023 | Soil | 1 | | | FS | 07 - 18" | | | 1 | 14 | | | - | - | - | | | X | | Ŭ | | | | |
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| Addition | al Instructio | ns: Plea | ase CC: cl | burton@e | ensolum | .com, ag | giovengo | @ensolur | m.com, cha | dhmil | ton | @ens | olun | n.coi | m | | | | | | | | | | |
| I, (field sam | pler), attest to the | e validity and | d authenticit | y of this samp | ole. Lam av | vare that ta | impering wit | th or intentio | nally mislabellir | ng the sa | mple | locatio | in, | - | | | | | | | | | I on ice the day | the market of the second second | pled or |
| | e of collection is c | and the second second second | aud and may | | | the second s | | | Chad Hamilton | Inu | | - | | | | receive | a packed | in ice a | | | | | an 6 °C on sub | sequent days. | |
| Reiniquish | ed by: (Signatur | e) | | 2/23 | Time 1030 | Re | Mull | (Signature) | ent | Date | 2-2 | 3 | lime 10 | 30 | | Rece | eived o | on ic | | - | se Or V | niy | | | |
| Relinquish | ed by: (Signatur | re) Q. | Date // | Color Color Charles | Time | Re | ceived by: | (Signature) | | Date | | | Time | | | | | | 2 | 9 | | | | | |
| Relinquish | ed by: (Signatur | rey | Date | 0100 | Time | Re | gived by: | (Agenture) | 1450 | Jo. Date | | | Time | 15 | _ | 11 | | | - 12 | | | | <u>T3</u> | | |
| A | | nleso | | 2.23 | 240 | | art | the / | nar, | 910 | | | 8: | IS | | | Temp | | 4 | | 12.00 | | | | in Mary |
| Note: Sam | rix: S - Soil, Sd - S ples are discard | led 30 days | after resul | Its are repor | ted unless | other arr | angement | s are made. | Hazardous s | amples | will b | pe retu | urned | to cli | ent or | disp | osed of | at the | mber i | glass, v | - VO | e repo | ort for the a | inalysis of t | he above |
| samples is | applicable only | to those sa | amples rec | eived by the | laborator | ry with thi | s COC. The | liability of t | the laboratory | is limite | ed to | the a | moun | t paid | for o | n the | report | | | | | | | | |
| | | | | | | | | | | | | | | | | (| 3 | | - | 0 | n | V | <i>ir</i> | 01 | 0 |
| | | | | | | | | | | | | | | | | - | - | | | 5 | | V | | U | 5 |

Page 13 of 13

Released to Imaging: 2/14/2024 11:37:34 AM

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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Margarita Federal 13 Com #005H

Work Order: E310274

23052-0001 Job Number:

Received: 10/27/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

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

Project Name: Margarita Federal 13 Com #005H Workorder: E310274 Date Received: 10/27/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/27/2023 8:15:00AM, under the Project Name: Margarita Federal 13 Com #005H.

The analytical test results summarized in this report with the Project Name: Margarita Federal 13 Com #005H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com





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|------------------------------|---------------|------------------|---------------------|-------------|------------------|
| Matador Resources, LLC. | | Project Name: | Margarita Federal 1 | 3 Com #005H | Reported: |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 23052-0001 | | Reported. |
| Dallas TX, 75240 | | Project Manager: | Ashley Giovengo | | 10/27/23 14:21 |
| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
| FS18 - 2' | E310274-01A | Soil | 10/26/23 | 10/27/23 | Glass Jar, 2 oz. |



| | D | | ata | | | | |
|---|------------------------------|------------|------------------------------|-----------|----------|----------------------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 | Project Name Project Numb | | garita Federal 13 52-0001 | Reported: | | | |
| Dallas TX, 75240 | Project Mana | ger: Ash | ley Giovengo | | | 10/27/2023 2:21:46PM | |
| | | FS18 - 2' | | | | | |
| | | E310274-01 | | | | | |
| | | Reporting | | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes | |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analys | t: RKS | | Batch: 2343094 | |
| Benzene | ND | 0.0250 | 1 | 10/26/23 | 10/27/23 | | |
| Ethylbenzene | ND | 0.0250 | 1 | 10/26/23 | 10/27/23 | | |
| Toluene | ND | 0.0250 | 1 | 10/26/23 | 10/27/23 | | |
| p-Xylene | ND | 0.0250 | 1 | 10/26/23 | 10/27/23 | | |
| p,m-Xylene | ND | 0.0500 | 1 | 10/26/23 | 10/27/23 | | |
| Total Xylenes | ND | 0.0250 | 1 | 10/26/23 | 10/27/23 | | |
| Surrogate: 4-Bromochlorobenzene-PID | | 95.5 % | 70-130 | 10/26/23 | 10/27/23 | | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analys | t: RKS | | Batch: 2343094 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 10/26/23 | 10/27/23 | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 89.0 % | 70-130 | 10/26/23 | 10/27/23 | | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analys | t: JL | | Batch: 2343116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 10/27/23 | 10/27/23 | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 10/27/23 | 10/27/23 | | |
| Surrogate: n-Nonane | | 84.3 % | 50-200 | 10/27/23 | 10/27/23 | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | t: RAS | | Batch: 2343079 | |
| Chloride | 666 | 20.0 | 1 | 10/27/23 | 10/27/23 | | |
| | | | | | | | |

Sample Data



QC Summary Data

| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | 23 | argarita Feder 8052-0001 shley Gioveng | | n #005H | | | Reported: 10/27/2023 2:21:46PM |
|---|--------|--|----------------|--|----------|---------------|-------------|--------------|--|
| | | Volatile O | rganics b | oy EPA 802 | 21B | | | | Analyst: RKS |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2343094-BLK1) | | | | | | | Prepared: 1 | 0/26/23 A | analyzed: 10/27/23 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Foluene | ND | 0.0250 | | | | | | | |
| p-Xylene | ND | 0.0250 | | | | | | | |
| o,m-Xylene | ND | 0.0500 | | | | | | | |
| Fotal Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.82 | | 8.00 | | 97.8 | 70-130 | | | |
| LCS (2343094-BS1) | | | | | | | Prepared: 1 | 0/26/23 A | analyzed: 10/27/23 |
| Benzene | 5.39 | 0.0250 | 5.00 | | 108 | 70-130 | | | |
| Ethylbenzene | 5.32 | 0.0250 | 5.00 | | 106 | 70-130 | | | |
| Foluene | 5.36 | 0.0250 | 5.00 | | 107 | 70-130 | | | |
| p-Xylene | 5.33 | 0.0250 | 5.00 | | 107 | 70-130 | | | |
| o,m-Xylene | 10.8 | 0.0500 | 10.0 | | 108 | 70-130 | | | |
| Total Xylenes | 16.2 | 0.0250 | 15.0 | | 108 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.81 | | 8.00 | | 97.6 | 70-130 | | | |
| Matrix Spike (2343094-MS1) | | | | Source: | E310261- | 05 | Prepared: 1 | 0/26/23 A | analyzed: 10/27/23 |
| Benzene | 5.59 | 0.0250 | 5.00 | ND | 112 | 54-133 | | | |
| Ethylbenzene | 5.51 | 0.0250 | 5.00 | ND | 110 | 61-133 | | | |
| Toluene | 5.57 | 0.0250 | 5.00 | ND | 111 | 61-130 | | | |
| p-Xylene | 5.52 | 0.0250 | 5.00 | ND | 110 | 63-131 | | | |
| p,m-Xylene | 11.2 | 0.0500 | 10.0 | ND | 112 | 63-131 | | | |
| Total Xylenes | 16.7 | 0.0250 | 15.0 | ND | 112 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.70 | | 8.00 | | 96.2 | 70-130 | | | |
| Matrix Spike Dup (2343094-MSD1) | | | | Source: | E310261- | 05 | Prepared: 1 | 0/26/23 A | analyzed: 10/27/23 |
| Benzene | 5.33 | 0.0250 | 5.00 | ND | 107 | 54-133 | 4.91 | 20 | |
| Ethylbenzene | 5.28 | 0.0250 | 5.00 | ND | 106 | 61-133 | 4.34 | 20 | |
| Toluene | 5.31 | 0.0250 | 5.00 | ND | 106 | 61-130 | 4.80 | 20 | |
| p-Xylene | 5.27 | 0.0250 | 5.00 | ND | 105 | 63-131 | 4.56 | 20 | |
| N 1 | 10.7 | 0.0500 | 10.0 | ND | 107 | 63-131 | 4.39 | 20 | |
| o,m-Xylene | | 010200 | | | | | | | |



QC Summary Data

| | | QU D | umm | ary Data | 4 | | | | |
|---|--------|---|----------------|---|-----------|--------------------|-------------|-------------------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager | 2 | Margarita Feder 23052-0001 Ashley Gioveng | | n #005H | | | Reported: 10/27/2023 2:21:46PM |
| | Noi | nhalogenated (| Organics | s by EPA 801 | 15D - GI | RO | | | 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 | %0 | %0 | 70 | 70 | Inotes |
| Blank (2343094-BLK1) | | | | | | | Prepared: 1 | 0/26/23 A | nalyzed: 10/27/23 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.09 | | 8.00 | | 88.7 | 70-130 | | | |
| LCS (2343094-BS2) | | | | | | | Prepared: 1 | 0/26/23 A | nalyzed: 10/27/23 |
| Gasoline Range Organics (C6-C10) | 52.8 | 20.0 | 50.0 | | 106 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.23 | | 8.00 | | 90.4 | 70-130 | | | |
| Matrix Spike (2343094-MS2) | | | | Source: | E310261-(| 05 | Prepared: 1 | 0/26/23 A | nalyzed: 10/27/23 |
| Gasoline Range Organics (C6-C10) | 52.0 | 20.0 | 50.0 | ND | 104 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.33 | | 8.00 | | 91.7 | 70-130 | | | |
| Matrix Spike Dup (2343094-MSD2) | | | | Source: | E310261- | 05 | Prepared: 1 | 0/26/23 A | nalyzed: 10/27/23 |
| Gasoline Range Organics (C6-C10) | 55.5 | 20.0 | 50.0 | ND | 111 | 70-130 | 6.39 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.22 | | 8.00 | | 90.2 | 70-130 | | | |

QC Summary Data

| | | QC D | umm | lary Data | 4 | | | | |
|---|-----------------|--|-------------------------|---|----------|--------------------|-------------|-------------------|--|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | | Project Name: Project Number: Project Manager: | | Margarita Feder 23052-0001 Ashley Gioveng | | n #005H | | | Reported: 10/27/2023 2:21:46PM |
| | Nonh | alogenated Org | anics b | y EPA 8015E |) - DRO | /ORO | | | Analyst: JL |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
| Blank (2343116-BLK1) | | | | | | | Prepared: 1 | 0/27/23 A | Analyzed: 10/27/23 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 43.6 | | 50.0 | | 87.2 | 50-200 | | | |
| LCS (2343116-BS1) | | | | | | | Prepared: 1 | 0/27/23 A | Analyzed: 10/27/23 |
| Diesel Range Organics (C10-C28) | 255 | 25.0 | 250 | | 102 | 38-132 | | | |
| Surrogate: n-Nonane | 44.6 | | 50.0 | | 89.3 | 50-200 | | | |
| Matrix Spike (2343116-MS1) | | | | Source: | E310274- | 01 | Prepared: 1 | 0/27/23 A | Analyzed: 10/27/23 |
| Diesel Range Organics (C10-C28) | 252 | 25.0 | 250 | ND | 101 | 38-132 | | | |
| Surrogate: n-Nonane | 41.6 | | 50.0 | | 83.2 | 50-200 | | | |
| Matrix Spike Dup (2343116-MSD1) | | | | Source: | E310274- | 01 | Prepared: 1 | 0/27/23 A | Analyzed: 10/27/23 |
| Diesel Range Organics (C10-C28) | 254 | 25.0 | 250 | ND | 102 | 38-132 | 0.943 | 20 | |
| Surrogate: n-Nonane | 44.9 | | 50.0 | | 89.8 | 50-200 | | | |



QC Summary Data

| | | ~ | | v | | | | | | |
|---------------------------------|--------|--------------------|----------------|------------------|------------|---------------|-----------|--------------|-------------------|-----|
| Matador Resources, LLC. | | Project Name: | l | Margarita Feder | ral 13 Com | #005H | | | Reported: | |
| 5400 LBJ Freeway, Suite 1500 | | Project Number: | 2 | 23052-0001 | | | | | • | |
| Dallas TX, 75240 | | Project Manager | : / | Ashley Gioveng | go | | | | 10/27/2023 2:21:4 | 6PM |
| | | Anions | by EPA | 300.0/9056 | 4 | | | | Analyst: RAS | |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes | |
| Blank (2343079-BLK1) | | | | | | | Prepared: | 10/26/23 | Analyzed: 10/27/2 | 3 |
| Chloride | ND | 20.0 | | | | | | | | |
| LCS (2343079-BS1) | | | | | | | Prepared: | 10/26/23 | Analyzed: 10/27/2 | 3 |
| Chloride | 245 | 20.0 | 250 | | 97.8 | 90-110 | | | | |
| Matrix Spike (2343079-MS1) | | | | Source: | E310229-0 | 01 | Prepared: | 10/26/23 | Analyzed: 10/27/2 | 3 |
| Chloride | 248 | 20.0 | 250 | ND | 99.1 | 80-120 | | | | |
| Matrix Spike Dup (2343079-MSD1) | | | | Source: | E310229-0 |)1 | Prepared: | 10/26/23 | Analyzed: 10/27/2 | 3 |
| Chloride | 253 | 20.0 | 250 | ND | 101 | 80-120 | 2.12 | 20 | | |
| | | | | | | | | | | |

QC Summary Report Comment:

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



| Matador Resources, LLC. | Project Name: | Margarita Federal 13 Com #005H | |
|------------------------------|------------------|--------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23052-0001 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 10/27/23 14:21 |

- 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.

| nt:/ | atac | dor | 1000 | luction | M Bi | ITO > 1 | 1 | | | Lat | o Use | e Only | | | | _ | ГАТ | | EPA P | ogram |
|----------|----------------|----------------|----------------------|---|----------------------------|------------------------|----------------------|--------|----------------------------|--------------|-------------|-------------|-------------------|---|------------|---------|----------|-----------------------------------|---------------|----------------------------|
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| lect M | anager: | Nati | 0001 | Govensor | ddress: Un F | ite | | 00 | 102 | 21- | | | is and N | | | _ | | CALL AND IN COLONY | | RCRA |
| , State | , Zip:Ca | rlsba | d. N | M1 58 220 P | hone: | | | - | À | Т | T | Anarys | | T | | T | | | | NCNA |
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| ail: a | giover | SOD | enso | lum , com | | | | | DRO/ | - | 20 B | 0 | 0.00 | | MN | ¥ | | NM CO | UT AZ | TX |
| ime | Date | | | | | | Lab | - | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | S | | | LI . | | Page SDWA RCRA TX |
| | Sampled | Matrix | No. of Containers | Sample ID | | | Numbe | r | TPH 0 8015 | BTEX | VOCI | Meta | Chlor | | BGDOC | GDOC | | | Remarks | |
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| | | - | | | | | 1 | | | | | | | - | | | | | | |
| litiona | Instruct | tions: ? | rese | nilton? | ice plea | ise cc | cbu | rt | 20 | Ne | n | 501 | um | | om | a | 5:0 | Jens | 08 | |
| | _ | cha | dhan | nilton~. | ensolum | . com | | | | | | | | | | , | 0 | 0 | 0 | |
| ld sampl | ler), agest to | o the validity | and authen | ticity of this sample. I am a | ware that tampering with o | or intentionally misla | belling the | sample | location | ٦, | 5 | Samples | requiring th | ermal pre | eservation | must be | received | on ice the day n 6 °C on subse | they are samp | led or |
| | | | Date | may be grounds for legal ac | a | | Date | | Time | _ | - | | - | | | Use C | | | | |
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| | | | | esults are reported unless | other arrangements are | e made. Hazardoi | Contain us sample | | | | _ | | | f at the | client e | xpense | The | eport for t | he analysis | of the |
| | | | | mples received by the lat | | | | | | | | | | report | | | | | | te |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| Client: | Matador Resources, LLC. Da | ate Received: | 10/27/23 | 08:15 | Work Order ID: | E310274 |
|-----------------|--|----------------------|----------|---------------------|----------------|---------------|
| Phone: | (972) 371-5200 Da | ate Logged In: | 10/26/23 | 17:58 | Logged In By: | Caitlin Mars |
| Email: | | ue Date: | 10/27/23 | 17:00 (0 day TAT) | | |
| Chain of | f Custody (COC) | | | | | |
| 1. Does t | the sample ID match the COC? | | Yes | | | |
| 2. Does t | the number of samples per sampling site location match | the COC | Yes | | | |
| 3. Were s | samples dropped off by client or carrier? | | Yes | Carrier: Courier | | |
| 4. Was th | he COC complete, i.e., signatures, dates/times, requested | l analyses? | Yes | | | |
| 5. Were a | all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion. | e field, | Yes | | Commen | ts/Resolution |
| Sample ' | Turn Around Time (TAT) | | | | | |
| | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | |
| Sample | | | | | | |
| | sample cooler received? | | Yes | | | |
| | , was cooler received in good condition? | | Yes | | | |
| 9. Was th | he sample(s) received intact, i.e., not broken? | | Yes | | | |
| | e custody/security seals present? | | No | | | |
| | s, were custody/security seals intact? | | NA | | | |
| • | he sample received on ice? If yes, the recorded temp is 4°C, i.e. | 6°+1°C | | | | |
| 12. was u | Note: Thermal preservation is not required, if samples are re minutes of sampling | | Yes | | | |
| 13. If no | visible ice, record the temperature. Actual sample ter | nperature: <u>4°</u> | <u>C</u> | | | |
| Sample | <u>Container</u> | | | | | |
| 14. Are a | aqueous VOC samples present? | | No | | | |
| 15. Are V | VOC samples collected in VOA Vials? | | NA | | | |
| 16. Is the | e 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 1 | non-VOC samples collected in the correct containers? | | Yes | | | |
| 19. Is the | appropriate volume/weight or number of sample containers | collected? | Yes | | | |
| <u>Field La</u> | <u>ibel</u> | | | | | |
| | e field sample labels filled out with the minimum inform | ation: | | | | |
| | Sample ID? | | Yes | | | |
| | Date/Time Collected? Collectors name? | | Yes | | | |
| | Preservation_ | | Yes | | | |
| | s the COC or field labels indicate the samples were prese | erved? | No | | | |
| | sample(s) correctly preserved? | | NA | | | |
| | b filteration required and/or requested for dissolved meta | ıls? | No | | | |
| | ase Sample Matrix | | | | | |
| | s the sample have more than one phase, i.e., multiphase? | | No | | | |
| | s, does the COC specify which phase(s) is to be analyzed | | NA | | | |
| - | | | INA | | | |
| | tract Laboratory | | | | | |
| | samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so | | No NA | 6 1 | | |
| / Y W/96 | a supcontract japoratory specified by the client and if so | wno? | INA | Subcontract Lab: NA | | |

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



envirotech Inc.



APPENDIX F

Email Correspondence

| From: | Velez, Nelson, EMNRD |
|--------------|--|
| To: | Ashley Giovengo |
| Cc: | clinton.talley@matadorresources.com; Cole Burton; Bratcher, Michael, EMNRD |
| Subject: | Re: [EXTERNAL] Matador Production - Extension Request - Margarita 5H 20230301-1600 Completions - Incident Number nAPP2306635043 |
| Date: | Monday, June 26, 2023 7:53:42 AM |
| Attachments: | image001.png image002.png image003.png image004.png Outlook-ftpwofim.png |

[**EXTERNAL EMAIL**]

Good morning Ashley,

Your request for a time extension is approved to 08/28/2023. Remediation Due date has been updated in the incident page.

Please include a copy of this and all correspondence in your appropriate report(s). Thank you.

Regards,

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



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, June 23, 2023 3:48 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador Production - Extension Request - Margarita 5H 20230301-1600
Completions - Incident Number nAPP2306635043

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Friday, June 23, 2023 3:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>
Subject: [EXTERNAL] Matador Production - Extension Request - Margarita 5H 20230301-1600
Completions - Incident Number nAPP2306635043

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

All,

Matador Production is requesting an extension of the current deadline of May 30, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Margarita 5H 20230301-1600 Completions site (Incident Number nAPP2306635043). The release occurred on March 01, 2023, and as a result, approximately 21 barrels of produced water was released. The previous operator of this site, Advance Energy Partners Holdings, LLC (Advance), submitted the C-141 Form to the New Mexico Oil Conservation Division (NMOCD) on March 08, 2023. Matador Resources has since assumed responsibility for this release due to the recent acquisition of oil and gas well properties previously owned by Advance. Matador would like to request a 90-day extension of this deadline until August 28, 2023, to complete delineation sampling and excavation activities and to submit a remediation work plan or closure report.

Thanks,



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

| From: | Velez, Nelson, EMNRD |
|--------------|---|
| То: | Ashley Giovengo |
| Cc: | Cole Burton; Chad Hamilton; clinton.talley@matadorresources.com; Bratcher, Michael, EMNRD |
| Subject: | Matador Production - Extension Request - Margarita 5H 20230301 - 1600 Completions - Incident Number nAPP2306635043 |
| Date: | Wednesday, August 23, 2023 9:51:47 AM |
| Attachments: | image.png image.png image.png Outlook-fivunxfs.png |

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

[**EXTERNAL EMAIL**]

Good morning Ashley,

Your 60-day time extension request is approved. This is the second extension requested. Remediation Due date has been updated to October 27, 2023 within the incident page.

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

Regards,

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



previous email submittal;

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Tuesday, August 22, 2023 3:04 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; clinton.talley@matadorresources.com
Subject: [EXTERNAL] Matador Production - Extension Request - Margarita 5H 20230301 - 1600
Completions - Incident Number nAPP2306635043

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

Hello,

Matador Production is requesting an extension of the current deadline of August 28, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Margarita 5H 20230301-1600 Completions site (Incident Number nAPP2306635043). The release occurred on March 01, 2023, and as a result, approximately 21 barrels of produced water was released. The previous operator of this site, Advance Energy Partners Holdings, LLC (Advance), submitted the C-141 Form to the New Mexico Oil Conservation Division (NMOCD) on March 08, 2023. Matador Resources has since assumed responsibility for this release due to the recent acquisition of oil and gas well properties previously owned by Advance. An extension request was submitted to the Division on June 23, 2023, and approved on June 26, 2023, however due to the presence of frac operations at the site, there has been limited access to the spill area. As of August 04, 2023, frac operations have ceased and equipment has been mobilized from the immediate spill area. Delineation sampling will be completed by August 25, 2023, and laboratory analytical results will be ready for review in 5-7 business days.

Matador would like to request a 60-day extension of this deadline until October 27, 2023, to complete excavation activities, collect confirmation samples and to submit a remediation work plan or closure report.

Thanks,



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

| Cole Burton | | |
|--|--|--|
| Enviro, OCD, EMNRD | | |
| Ashley Giovengo; Chad Hamilton | | |
| 48-hour Confirmation Sampling Notification Email - Margarita Federal Com #005H | | |
| Friday, September 22, 2023 7:49:00 AM | | |
| image001.png | | |
| image002.png | | |
| image003.png image004.png | | |
| | | |

Hello,

We intend collect confirmation samples at Margarita Federal Com #005H site (nAPP2306635043) on Wednesday, September 27, 2023 and Thursday, September 28, 2023.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

| F |
|---|
| 5 |
| E |
| i |

Cole Burton Project Manager 575-706-5056 Ensolum, LLC

| From: | Chad Hamilton | | |
|--------------|---|--|--|
| То: | ocd.enviro@emnrd.nm.gov | | |
| Cc: | Cole Burton; Ashley Giovengo; clinton.talley@matadorresources.com; Ethan Haft | | |
| Subject: | 48-hour Confirmation Sampling Notification Email - Margarita 13 Federal Com #005H - Incident Number nAPP2306635043 | | |
| Date: | Friday, October 13, 2023 7:14:00 AM | | |
| Attachments: | image001.png image002.png image003.png image004.png | | |

Hello,

We intend to collect confirmation samples at Matador Production Company's Margarita 13 Federal Com #005H site (Incident Number *nAPP2306635043*) beginning on Tuesday, October 17, 2023, at 08:00 am MST through Friday, October 20, 2023.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Chad Hamilton Staff Geologist 940-923-0072 Ensolum, LLC in f

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

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

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

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

CONDITIONS

| Operator: | OGRID: |
|----------------------------|---|
| MATADOR PRODUCTION COMPANY | 228937 |
| One Lincoln Centre | Action Number: |
| Dallas, TX 75240 | 280506 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |
| | - |

CONDITIONS

Created By Condition scwells None

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Action 280506

Condition Date

2/14/2024