



June 19, 2024

New Mexico Energy Mineral and Natural Resources Department

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Deferral Request Addendum
Voni East Facility Tank Battery
Incident Numbers nAPP2313247620
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request Addendum* (DRA) to document assessment, excavation, and soil sampling activities at the Voni East Facility Tank Battery (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 *DRA*, describing additional Site assessment and confirmation sampling activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2313247620 until the Site is reconstructed and/or the well pad is abandoned.

On November 30, 2023, Ensolum submitted a Deferral Request (DR) to the New Mexico Oil Conservation Division (NMOCD); however, the DR was denied by the New Mexico Oil Conservation Division (NMOCD) for the following reasons:

Deferral denied. In sampling notification provided to the OCD for 11/13/2023, you said you were going to recollect 2 confirmation floor samples, however this lab report is missing from the report. Include all laboratory reports in resubmittal. Per 19.15.29.12(C)2 NMAC, "the deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water." The "step-out" samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. SS05, SS06 and SS08 are too far away from edge of release to laterally define it. Recollect these horizontal delineation samples closer to requested deferral area(s) i.e., within a few feet. Once you have these sample points submit a new deferral request to OCD by 6/3/2024.

This DRA addresses NMOCD's concerns regarding the missing laboratory analytical results for confirmation floor sample FS11 at 2 feet below ground surface (bgs) and the step-out samples required to laterally defining the release extent on-pad.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit E, Section 21, Township 26 South, Range 31 East, in Eddy County, New Mexico (32.03343°, -103.77998°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 12, 2023, a blind flange was not added to the end of a production water dump line during routine facility maintenance and as a result, approximately 46 barrels (bbls) of produced was released onto the well pad. Matador submitted a Release Notification Form C-141 (Form C-141) on May 13, 2023, to the NMOCD, and the release was subsequently assigned Incident Number nAPP2313247620 (see Appendix A).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the 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 Form C-141, Site Assessment/Characterization. Potential Site receptors are identified in Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4769-POD1, with a depth to water measurement of greater than 101 feet bgs. The well is located 0.24 miles northwest of the Site and the most recent documented water level measurement was collected on September 8, 2023, indicating groundwater was not present in the boring and that groundwater is present at depths greater than 101 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 1,816 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On June 7, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight preliminary soil samples (SS01 through SS08) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the release and the lateral extent of the potentially impacted soil. The preliminary soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the boreholes were logged on a lithologic/soil sampling log, which is included in Appendix C. 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 D.

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. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS03 indicated COC concentrations were all in compliance with the Site Closure Criteria. Preliminary soil sample SS04, located within the release extent, indicated concentrations of TPH-GRO/TPH-DRO exceeded the Site Closure Criteria at 0.5 feet bgs. Preliminary soil samples SS05 through SS08, located outside of the release extent, were all in compliance with the strictest Closure Criteria per NMOCD Table I, except SS08 which was recollected. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for select preliminary soil samples, additional delineation and remediation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On July 13, 2023, Ensolum personnel returned to the Site to complete additional delineation sampling activities. Three boreholes associated with surface soil sample locations SS01 through SS03 were advanced via hydrovac, to assess the vertical extent of the spill area to the strictest Closure Criteria per NMOCD Table I. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet to 2 feet bgs in sample locations SS01 and SS02 and depths ranging from 0.5 feet to 4 feet bgs in sample location SS03. The hydrovac encountered refusal in sample location SS01 at 5 feet bgs. Preliminary soil sample SS08 exceeded the strictest Closure Criteria and was recollected laterally to the west; the sample location is designated by SS08A.

Between October 30 and October 31, 2023, Ensolum personnel were onsite to oversee the continuation of delineation activities and to complete remediation of the accessible spill area. Two boreholes associated with surface soil sample locations (SS01 and SS04) were advanced with a mini excavator and a with a skid-steer equipped with auger attachment. Discrete soil samples were collected from each borehole at depths ranging from 6 feet to 9 feet bgs in sample location SS01 and depths ranging from 0.5 feet to 5 feet bgs in sample location SS04. Soil from the boreholes was field screened for TPH using a PetroFLAG® Hydrocarbon Analysis System and chloride test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2. Delineation soil samples were handled, preserved, and analyzed in the same manner as described above.

Excavation of the accessible spill area was completed with a backhoe, mini excavator, and hand tools. Following removal of soil, Ensolum personnel collected 12, 5-point composite soil samples representing up to 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. One confirmation sidewall sample was collected from an area where the excavation ranged in depth from ground surface to 2-feet bgs. The excavation confirmation soil samples were handled, preserved, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Ensolum personnel returned to the Site on November 13, 2023, to remove additional impacted soil in confirmation sample location FS11. The remediation was completed with a mini excavator to a depth of 2 feet bgs. The final excavation extent measured approximately 2,094 square feet. A total of approximately 140 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with safety fencing.

On May 20, 2024, Ensolum personnel returned to the Site in order to collect lateral delineation samples closer in proximity to the release extent in sample locations SS05, SS06, and SS08A. Three lateral delineation soil samples (SS05A, SS06A, and SS08B) were collected at ground surface and field screened for VOC's and chloride in the same manner as previously described. Lateral delineation samples SS05A and SS06A were collected at the edge of the release extent and lateral delineation sample point SS08B was collected approximately 16 feet from the edge of the release extent. Ensolum personnel collected two confirmation soil samples FS13 and FS14 at ground surface in between the edge of the release extent and lateral delineation sample point SS08B (see figures 2 and 3).

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for vertical delineation soil samples SS01 through SS04 were all in compliance with the strictest Closure Criteria at 9 feet, 4 feet, 3 feet, and 5 feet bgs, respectively. Lateral delineation soil sample SS08A was also in compliance with the strictest Closure Criteria and with the Site Closure Criteria at 0.5 feet bgs.

Laboratory analytical results for final confirmation floor and sidewall soil samples indicated all COCs were in compliance with the Site Closure Criteria except for confirmation soil sample FS11. Confirmation soil sample FS11 was resampled on November 13, 2023, and was in compliance with the Closure Criteria for the Site. Laboratory analytical results are summarized in Tables 1 and 2 and laboratory analytical reports are included in Appendix E.

Laboratory analytical results from the three lateral delineation soil samples (SS05A, SS06A, and SS08B) collected at ground surface were all in compliance with the Site closure criteria as well as the strictest Closure Criteria per NMOC Table 1. Confirmation floor samples FS13 and FS14, collected at ground surface, were both in compliance with the Site Closure Criteria.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation (see deferral area depicted on Figure 4) due to the presence of active production equipment and surface pipelines surrounding the spill area preventing full excavation of impaired soil. The remaining impaired soil is limited to the areas directly surrounding or beneath active production where remediation would require a major facility deconstruction. The soil remaining in place is delineated vertically by delineation soil samples SS01F and SS04D, collected at 6 feet and 4 feet bgs, respectively. The soil is laterally delineated by delineation soil samples SS05A,

SS06A, SS07 and SS08B. Confirmation soil samples FS13 and FS14, collected at ground surface, further indicate that the soil in between the release extent and lateral delineation sample point SS08B are in compliance with the Site criteria and will not require remediation until the Site is reclaimed.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 101 feet bgs, and the water well is 0.24 miles northwest of the Site.

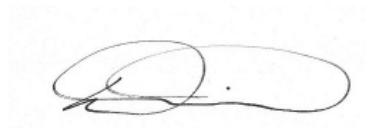
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2313247620 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Scientist



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

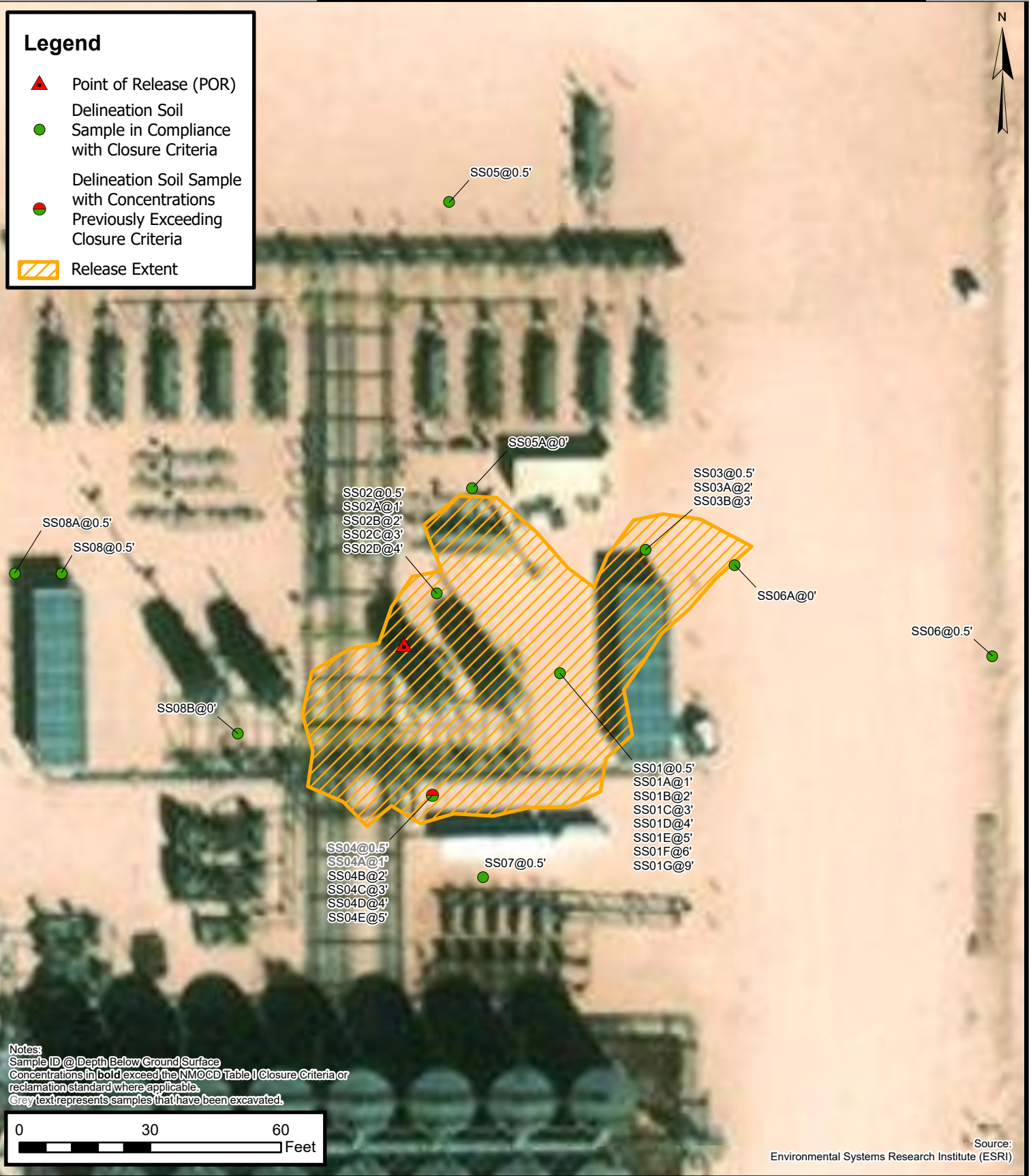
cc: Clinton, Talley, Matador Production Company
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Deferral Area Map
Table 1	Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Referenced Well Records
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	Email Correspondence



FIGURES

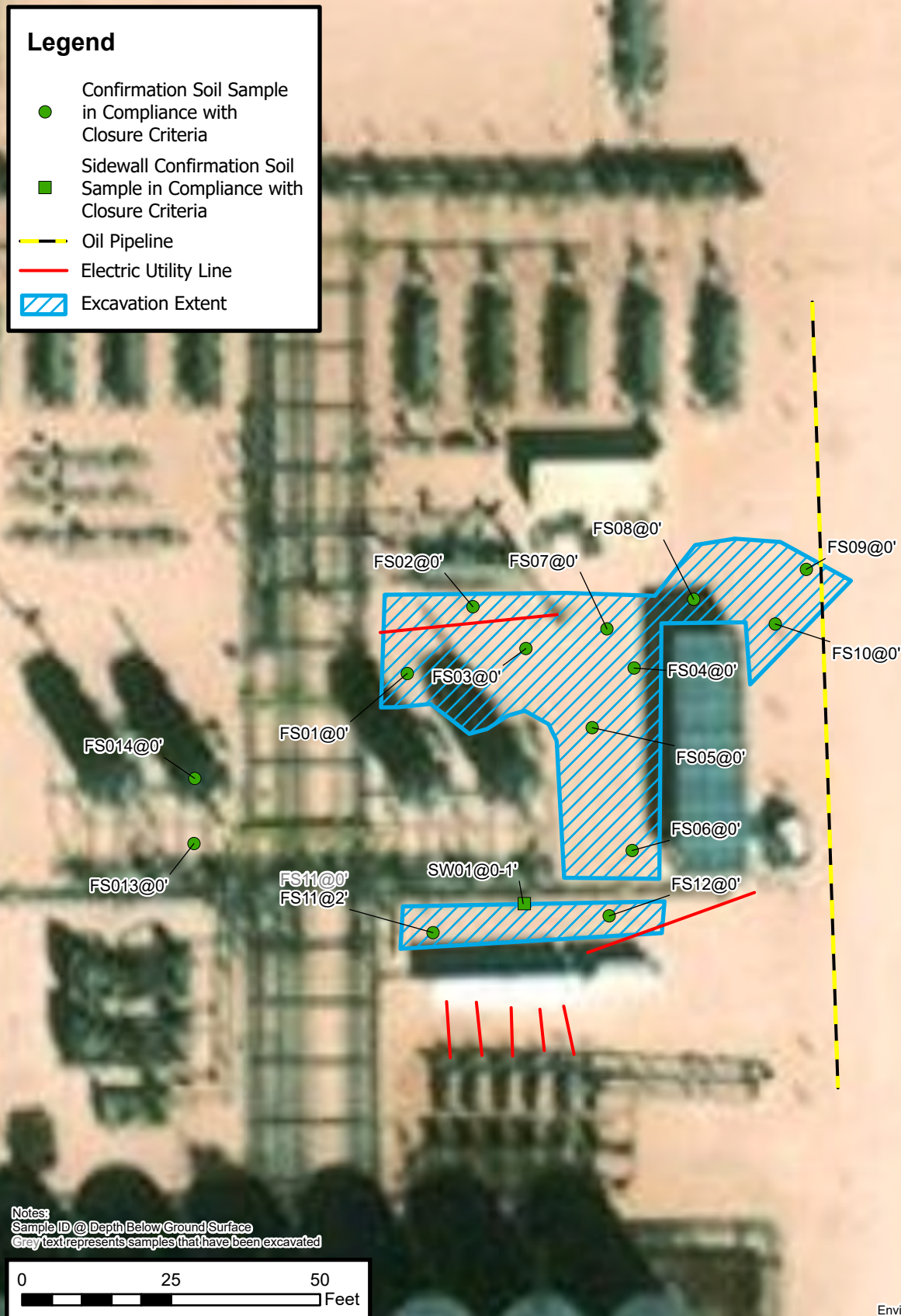


Delineation Soil Sample Locations

Matador Production Company
 Voni East Facility Tank Battery
 Incident Number: nAPP2313247620
 Unit E, Section 21, Township 26S, Range 31E
 Eddy County, New Mexico

FIGURE
2

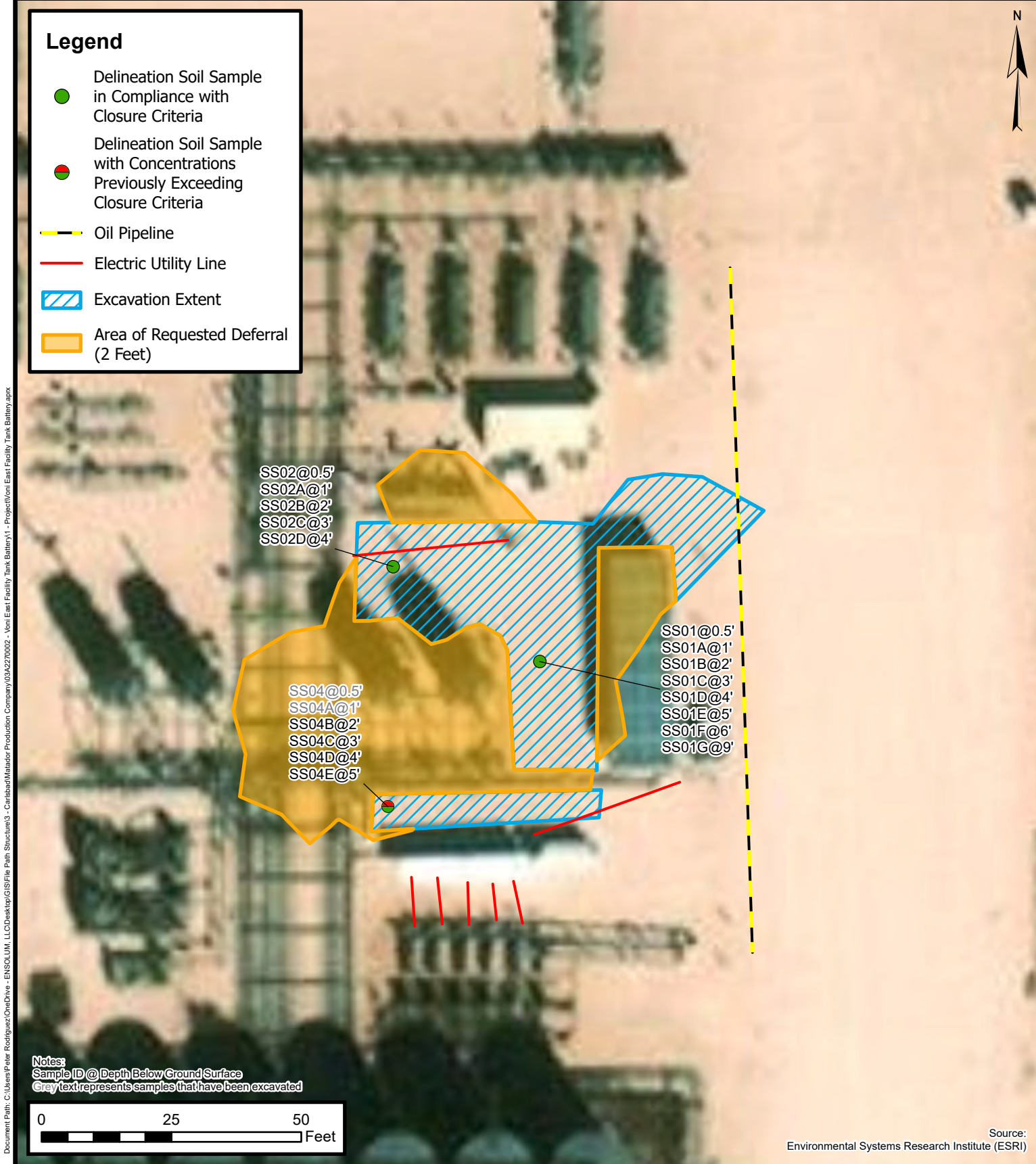
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Confirmation Soil Sample Locations

Matador Production Company
 Voni East Facility Tank Battery
 Incident Number: nAPP2313247620
 Unit E, Section 21, Township 26S, Range 31E
 Eddy County, New Mexico

FIGURE
 3



Area of Requested Deferral

Matador Production Company
 Voni East Facility Tank Battery
 Incident Number: nAPP2313247620
 Unit E, Section 21, Township 26S, Range 31E
 Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Voni East Facility Tank Battery
 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
Delineation Soil Samples										
SS01	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	9,300
SS01A	6/7/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	10,100
SS01B	6/7/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
SS01C	7/13/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	3,630
SS01D	7/13/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	8,320
SS01E	7/13/2023	5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	1,220
SS01F	10/31/2023	6	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	542
SS01G	10/31/2023	9	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	323
SS02	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	130	196.7	15,900
SS02A	6/7/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	30.3	30.3	10,600
SS02B	7/13/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	659
SS02C	7/13/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	784
SS02D	7/13/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	159
SS03	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	10,300
SS03A	7/13/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	199
SS03B	7/13/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	184
SS04	6/7/2023	0.5	0.77	20.79	125	6,270	742	6,395	7,137	11,800
SS04A	6/7/2023	1	1.66	42.79	298	8,270	800	8,568	9,368	2,800
SS04B	10/30/2023	2	<0.025	0.1892	<20.0	81.5	<50.0	<25.0	81.5	2,780
SS04C	10/30/2023	3	<0.025	0.4325	<20.0	31.5	<50.0	<25.0	<50.0	831
SS04D	10/30/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	49.1
SS04E	10/30/2023	5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<400.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Voni East Facility Tank Battery
 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
Delineation Soil Samples										
SS05	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	128
SS05A	05/20/204	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	221
SS06	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	44.5
SS06A	05/20/204	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS07	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	335
SS08	6/7/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	761
SS08A	7/13/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	197
SS08B	05/20/204	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	403

Notes:

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Voni East Facility Tank Battery
 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
Excavation Floor Soil Samples										
FS01	10/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	10,500
FS02	10/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	9,040
FS03	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	5,780
FS04	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	6,670
FS05	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	9,570
FS06	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	6,800
FS07	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	3,300
FS08	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	3,830
FS09	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<400.00
FS10	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<400.0
FS11	10/31/2023	0	<0.025	3,856.0	132	2,050	204	2,182	2,383	4,980
FS11	11/13/2023	2	<0.025	1,561.7	48.5	662	75.6	710.5	786.1	2,380
FS12	10/31/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	2,920
FS13	5/20/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	5,290
FS14	5/20/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	3,120
Excavation Sidewall Soil Samples										
SW01	10/31/2023	0-1	<0.0250	4.734	21.2	683	88.8	704.2	793	3,900

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2313247620
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # <i>(assigned by OCD) nAPP2313247620</i>
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.03343

Longitude -103.77998

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Voni East Facility Tank Battery	Site Type Oil Well
Date Release Discovered 05/12/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	21	26S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 46 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Personnel performing routine facility maintenance did not add a blind flange on a produced water dump line. This resulted in the release of approximately 46 bbls of produced water onto the caliche pad.

$$BBL\ Estimate = \left(\frac{Saturated\ Soil\ Volume\ (ft^3)}{4.21 \left(\frac{ft^3}{bbl} \text{ equivalent} \right)} \right) \times Estimated\ Soil\ Porosity\ (\%)$$


$$((3853.4 \times 0.333) / 4.21)) \times 0.15 = 45.7 \text{ bbls}$$

Incident ID	nAPP2313247620
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 05/12/2023 via website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>05/12/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/15/2023</u>

Incident ID	nAPP2313247620
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>101</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2313247620
District RP	
Facility ID	
Application ID	

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

Printed Name: Clint Talley Title: EHS Supervisor

Signature: _____ Date: _____

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2313247620
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Clint TalleyTitle: EHS Supervisor

Signature: _____

Date: 11/30/2023email: Clinton.talley@matadorresources.comTelephone: 337-319-8398**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____



APPENDIX B

Well Log and Record



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

September 13, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4769Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4769 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII SEP 14 2023 PM 2:40



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4769			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson Fwy Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 1.66 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	46	46.92 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 21 T26S R31E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/08/2023	DRILLING ENDED 09/08/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 9/13/2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FOR OSE INTERNAL USE

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



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4769- POD-1

Well owner: Matador Production Company

Phone No.: 337-319-8398

Mailing address: 5400 Lyndon B Johnson Fwy Suite 1500

City: Dallas State: Texas Zip code: 75240

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cameron Pruitt

4) Date well plugging began: 09/12/2023 Date well plugging concluded: 09/12/2023

5) GPS Well Location: Latitude: 32 deg, 2 min, 1.66 sec
Longitude: 103 deg, 46 min, 46.92 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),
by the following manner: water level probe

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 09/01/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT SEP 14 2023 PM 2:40

- For each interval plugged, describe within the following columns:**

USE OF SEP 14 2023 PM 2:40

Jack Atkins

9/13/2023

Version: September 8, 2009
Page 2 of 2






WR-20 Well Record and Log-packet-forsign

Final Audit Report

2023-09-13

Created:	2023-09-13
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA914YOThcZ6aUF6b7ZuFDIABkPmUK-QM_

"WR-20 Well Record and Log-packet-forsign" History


-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-09-13 - 8:05:20 PM GMT- IP address: 24.40.85.191
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-09-13 - 8:05:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-09-13 - 8:49:20 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-09-13 - 8:52:34 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-09-13 - 8:52:34 PM GMT


07:40 PM SEP 14 2023





APPENDIX C


Lithologic Soil Sampling Logs

 ENSOLUM							Sample Name: SS01		Date: 7/13/23	
							Site Name: Voni East Facility Tank Battery			
							Incident Number: nAPP2313247620			
							Job Number: 03A2270002			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Ronni Hayes		Method: HVAC	
Coordinates: 32.03343, -103.77998							Hole Diameter: 2'		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
						0				
						1				
						2				
Moist	3259	78	N	SS01C	3	3	GP	Gravel, poorly graded, abundant, limestone, brown, no odor, no staining		
Moist	17466.4	97	N	SS01D	4	4	GP	Gravel, poorly graded, abundant limestone, light brown, no odor, no staining		
Moist	-	-	N	SS01E	5	5	GP	Large gravel, limestone rock sample		
Total Depth 5' bgs.										
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>										

 ENSOLUM					Sample Name: SS01		Date: 10/31/23	
					Site Name: Voni East Facility Tank Battery			
					Incident Number: nAPP2313247620			
					Job Number: 03A2270002			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Chad Hamilton		Auger Drill	
Coordinates: 32.033408, -103.779840					Hole Diameter: 2'		Total Depth: 9'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
					1	1		
					2	2		
					3	3		
					4	4		
					5	5		
Dry	442		N	SS01F	6	6	CCHE	Limestone, white to yellow-tan in color, very fine to fine grain size, dry, non-plastic, noncohesive, massive bed, U, uniform, sharp
Dry			N		7	7	CCHE	
Dry			N		8	8	CCHE	
Dry	263	39	N	SS01G	9	9	CCHE	
Total Depth @ 9 ft bgs.								

								Sample Name: SS02		Date: 7/13/23	
								Site Name: Voni East Facility Tank Battery			
								Incident Number: nAPP2313247620			
								Job Number: 03A2270002			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: HVAC	
Coordinates: 32.03343, -103.77998								Hole Diameter: 2'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
						1					
Moist	806.4	0	N	SS02B	2	2	GP	Gravel with sand, poorly graded, some, limestone, brown, no odor, no staining			
Moist	739.2	68	N	SS02C	3	3	GP	Gravel with sand, poorly graded, some, limestone, brown, no odor, no staining			
Moist	<178.3	51	N	SS02D	4	4	GP	Gravel, poorly graded, abundant limestone, brown, no odor, no staining			
Total Depth 4' bgs.											

 ENSOLUM							Sample Name: SS03		Date: 7/13/23	
							Site Name: Voni East Facility Tank Battery			
							Incident Number: nAPP2313247620			
							Job Number: 03A2270002			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Ronni Hayes		Method: HVAC	
Coordinates: 32.03343, -103.77998							Hole Diameter: 2'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
						0				
						1				
Moist	-	-	N	SS03A	2	2	GP	Large gravel, limestone rock sample		
Moist	-	-	N	SS03B	3	3	GP	Large gravel, limestone rock sample		
Total depth 3' bgs.										

								Sample Name: SS04		Date: 10/30/23	
								Site Name: Voni East Facility Tank Battery			
								Incident Number: nAPP2313247620			
								Job Number: 03A2270002			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Mini Excavator	
Coordinates: 32.033332, -103.779935								Hole Diameter: 2'		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	4,452		N	SS04A	1	1	CCHE	Light tan to light brown in color, poorly sorted ranging in size from very fine sand to very large gravel, dry, non-plastic, noncohesive, non-uniform, caliche pad			
Dry	1,691		N	SS04B	2	2	GM	Light to med brwn, poorly sorted ranging in size from very fine sand/silt to very large gravel, dry, non-plastic, noncohesive, massive, non-uniform, gradational			
Dry	621		N	SS04C	3	3	GM	Light brwn, poorly sorted ranging in size from very fine sand/silt to very large gravel, dry, non-plastic, noncohesive, massive, non-uniform, gradational			
Dry	ND	12	N	SS04D	4	4	GM				
Dry	230		N	SS04E		5	GM				
Total Depth @5 ft bgs.											



APPENDIX D

Photographic Log



Photographic Log

Matador Production Company
Voni East Facility Tank Battery
Incident # nAPP2313247620



Photograph 1

Date:5-12-2023

Description: Point of Release

View: Southwest



Photograph 2

Date:5-12-2023

Description: Point of Release on pad

View: Southwest



Photograph 3

Date:6-7-2023

Description: Marked lines within spill release

View: West



Photograph 4

Date: 6-7-2023

Description: Delineation activities

View: Northwest



Photographic Log

Matador Production Company
Voni East Facility Tank Battery
Incident # nAPP2313247620



Photograph 5

Date:7-13-2023

Description: Vertical Delineation

View: North



Photograph 6

Date:7-13-2023

Description: Vertical Delineation

View: Southwest



Photograph 7

Date:7-13-2023

Description: Vertical Delineation

View: West



Photograph 8

Date:7-13-2023

Description: Vertical Delineation

View: East



Photographic Log

Matador Production Company
Voni East Facility Tank Battery
Incident # nAPP2313247620

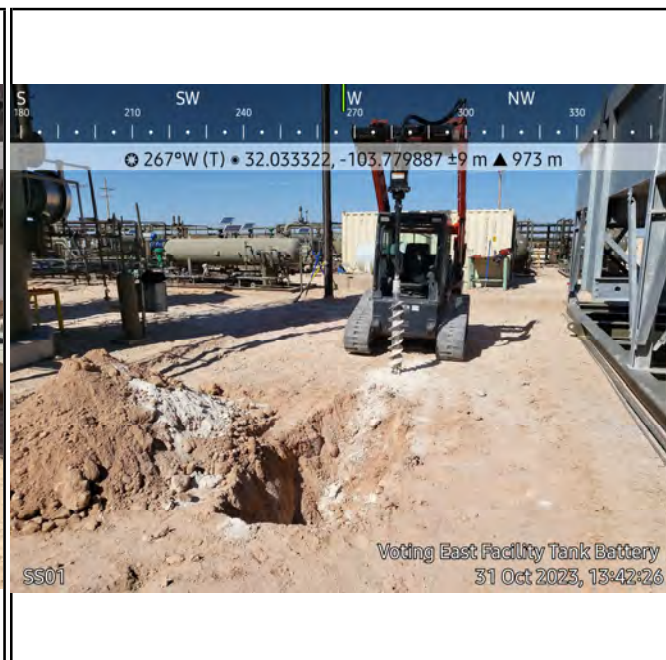


Photograph 9

Date:10-30-2023

Description: Vertical Delineation

View: East



Photograph 10

Date:10-31-2023

Description: Vertical Delineation

View: West

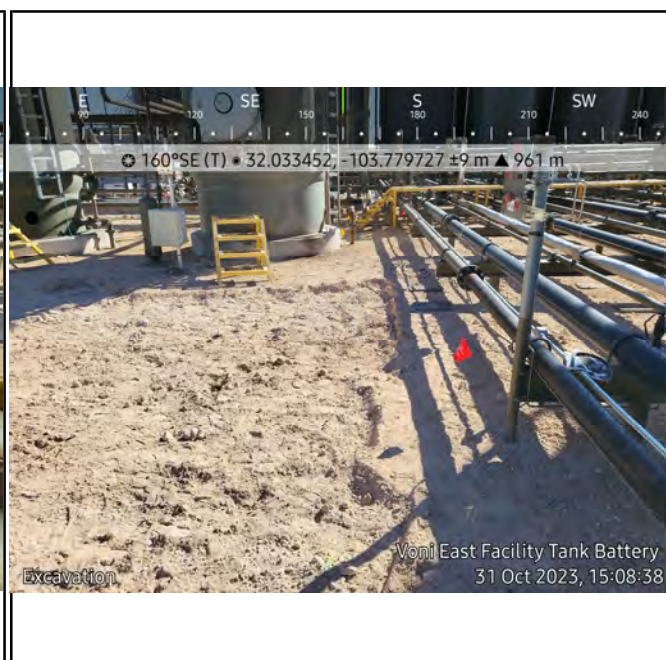


Photograph 11

Date:10-31-2023

Description: Excavation

View: West



Photograph 12

Date:10-31-2023

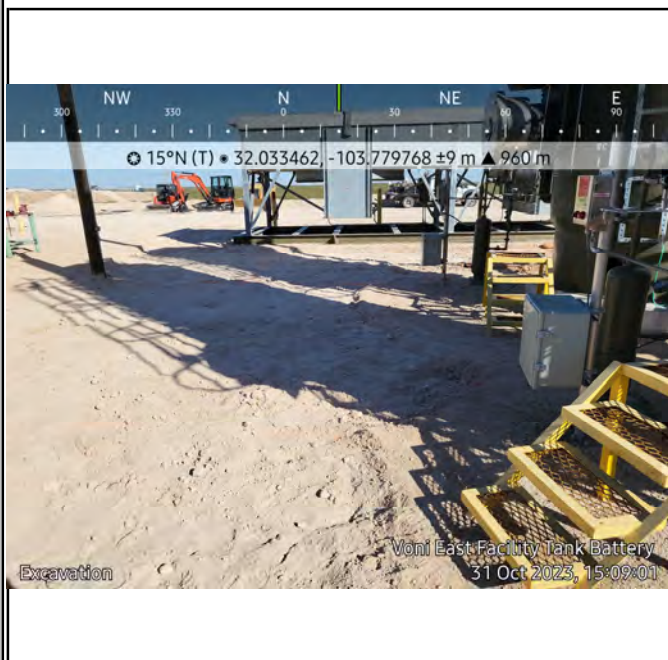
Description: Excavation

View: South



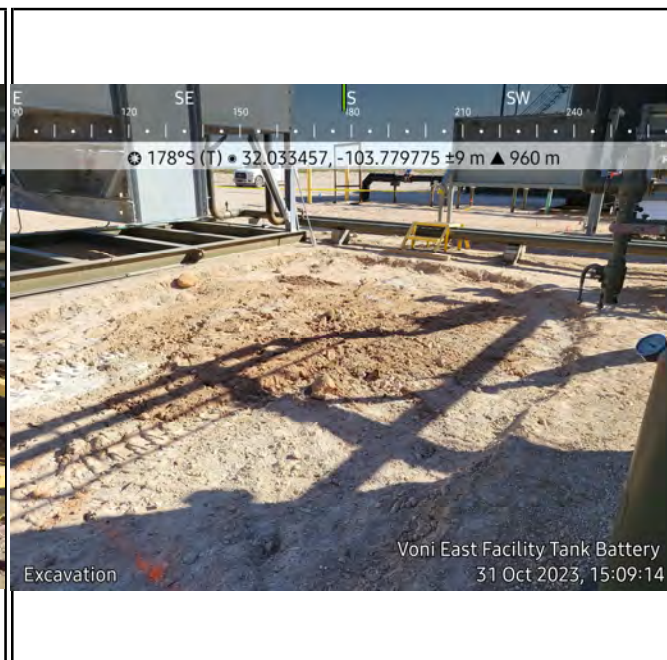
Photographic Log

Matador Production Company
Voni East Facility Tank Battery
Incident # nAPP2313247620



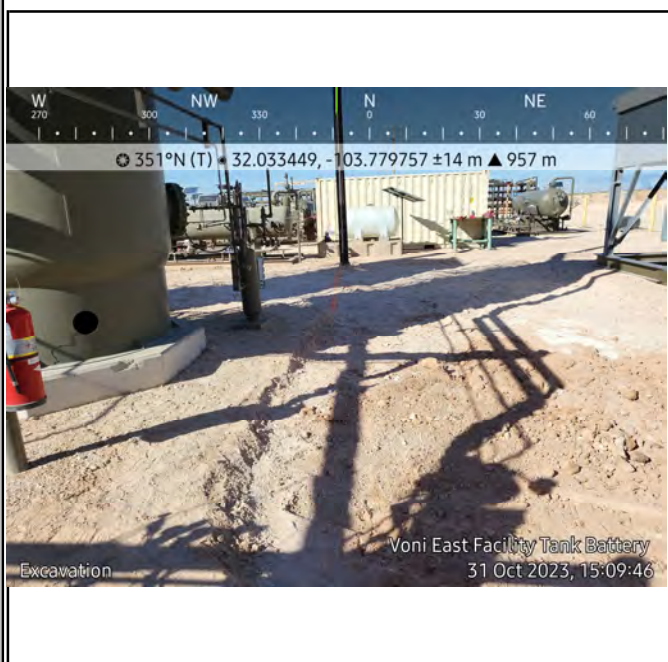
Photograph 13
Description: Excavation
View: North

Date:10-30-2023



Photograph 14
Description: Excavation
View: South

Date:10-31-2023



Photograph 15
Description: Excavation
View: North

Date:10-31-2023



Photograph 16
Description: Excavation
View: East

Date:11-13-2023



Photographic Log

Matador Production Company
Voni East Facility Tank Battery
Incident # nAPP2313247620



Photograph 17
Description: Excavation
View: Northeast

Date:11-13-2023



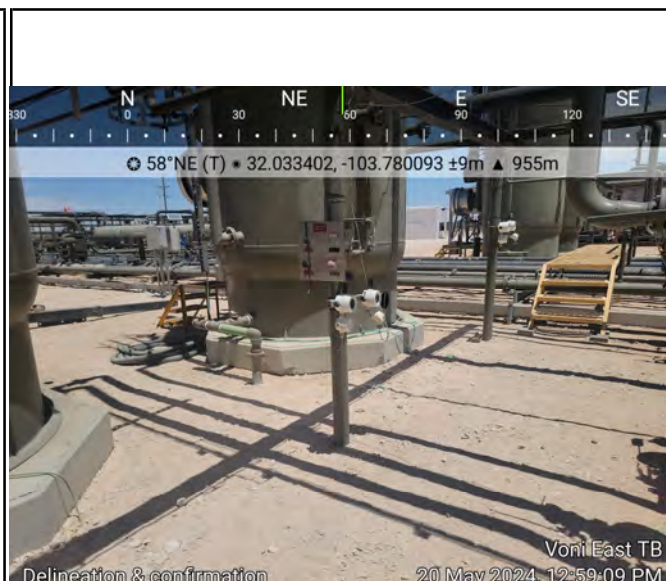
Photograph 18
Description: Sampling
View: South

Date:05-20-2024



Photograph 19
Description: Sampling
View: Southwest

Date:05-20-2024



Photograph 20
Description: Sampling
View: Northeast

Date:05-20-2024



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Production Company

Project Name: Voni East Facility Tank Battery

Work Order: E306079

Job Number: 23052-0001

Received: 6/9/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/16/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/16/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220



Project Name: Voni East Facility Tank Battery
Workorder: E306079
Date Received: 6/9/2023 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/9/2023 6:00:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

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Sample Summary

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/23 09:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E306079-01A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS01A - 1'	E306079-02A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS01B - 2'	E306079-03A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS02 - 0.5'	E306079-04A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS02A - 1'	E306079-05A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS03 - 0.5'	E306079-06A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS04 - 0.5'	E306079-07A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS04 - 1'	E306079-08A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS01 - 0.5'

E306079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Benzene	ND	0.0250	1	06/08/23	06/12/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/12/23	
Toluene	ND	0.0250	1	06/08/23	06/12/23	
o-Xylene	ND	0.0250	1	06/08/23	06/12/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/12/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.0 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2324001	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>	58.9 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2324008	
Chloride	9300	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS01A - 1'
E306079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Benzene	ND	0.0250	1	06/08/23	06/12/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/12/23	
Toluene	ND	0.0250	1	06/08/23	06/12/23	
o-Xylene	ND	0.0250	1	06/08/23	06/12/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/12/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>						
	63.2 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	10100	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported: 6/16/2023 9:40:55AM
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS01B - 2'
E306079-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Benzene	ND	0.0250	1	06/08/23	06/12/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/12/23	
Toluene	ND	0.0250	1	06/08/23	06/12/23	
o-Xylene	ND	0.0250	1	06/08/23	06/12/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/12/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>						
	66.5 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	1630	40.0	2	06/12/23	06/14/23	



Sample Data

Matador Production Company
3122 National Parks HWY
Carlsbad NM, 88220

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
6/16/2023 9:40:55AM

SS02 - 0.5'

E306079-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Benzene	ND	0.0250	1	06/08/23	06/12/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/12/23	
Toluene	ND	0.0250	1	06/08/23	06/12/23	
o-Xylene	ND	0.0250	1	06/08/23	06/12/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/12/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	130	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	66.7	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>						
	67.7 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	15900	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS02A - 1'

E306079-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Benzene	ND	0.0250	1	06/08/23	06/12/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/12/23	
Toluene	ND	0.0250	1	06/08/23	06/12/23	
o-Xylene	ND	0.0250	1	06/08/23	06/12/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/12/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/12/23	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		06/08/23	06/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2324001	
Diesel Range Organics (C10-C28)	30.3	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
Surrogate: n-Nonane	62.2 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2324008	
Chloride	10600	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS03 - 0.5'
E306079-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Benzene	ND	0.0250	1	06/08/23	06/13/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/13/23	
Toluene	ND	0.0250	1	06/08/23	06/13/23	
o-Xylene	ND	0.0250	1	06/08/23	06/13/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/13/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		06/08/23	06/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		06/08/23	06/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>						
	61.8 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	10300	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS04 - 0.5'

E306079-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Benzene	ND	0.0250	1	06/08/23	06/13/23	
Ethylbenzene	0.772	0.0250	1	06/08/23	06/13/23	
Toluene	1.72	0.0250	1	06/08/23	06/13/23	
o-Xylene	3.62	0.0250	1	06/08/23	06/13/23	
p,m-Xylene	14.7	0.0500	1	06/08/23	06/13/23	
Total Xylenes	18.3	0.0250	1	06/08/23	06/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	06/08/23	06/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2323073	
Gasoline Range Organics (C6-C10)	125	20.0	1	06/08/23	06/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	06/08/23	06/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2324001	
Diesel Range Organics (C10-C28)	6270	25.0	1	06/12/23	06/13/23	
Oil Range Organics (C28-C36)	742	50.0	1	06/12/23	06/13/23	
<i>Surrogate: n-Nonane</i>		109 %	50-200	06/12/23	06/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2324008	
Chloride	11800	400	20	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/16/2023 9:40:55AM
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SS04 - 1'

E306079-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Benzene	ND	0.0250	1	06/08/23	06/13/23	
Ethylbenzene	1.66	0.0250	1	06/08/23	06/13/23	
Toluene	1.93	0.0250	1	06/08/23	06/13/23	
o-Xylene	8.60	0.0250	1	06/08/23	06/13/23	
p,m-Xylene	30.6	0.0500	1	06/08/23	06/13/23	
Total Xylenes	39.2	0.0250	1	06/08/23	06/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	06/08/23	06/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2323073
Gasoline Range Organics (C6-C10)	298	20.0	1	06/08/23	06/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		131 %	70-130	06/08/23	06/13/23	S5
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	8270	25.0	1	06/12/23	06/13/23	
Oil Range Organics (C28-C36)	800	50.0	1	06/12/23	06/13/23	
<i>Surrogate: n-Nonane</i>						
		299 %	50-200	06/12/23	06/13/23	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	2800	40.0	2	06/12/23	06/14/23	



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 9:40:55AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2323073-BLK1)Prepared: 06/08/23 Analyzed: 06/12/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.4	70-130			

LCS (2323073-BS1)Prepared: 06/08/23 Analyzed: 06/12/23

Benzene	4.58	0.0250	5.00		91.5	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.3	70-130			
Toluene	4.71	0.0250	5.00		94.2	70-130			
o-Xylene	4.70	0.0250	5.00		93.9	70-130			
p,m-Xylene	9.25	0.0500	10.0		92.5	70-130			
Total Xylenes	13.9	0.0250	15.0		93.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike (2323073-MS1)Source: E306079-01Prepared: 06/08/23 Analyzed: 06/12/23

Benzene	4.68	0.0250	5.00	ND	93.5	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.7	61-133			
Toluene	4.78	0.0250	5.00	ND	95.7	61-130			
o-Xylene	4.75	0.0250	5.00	ND	95.1	63-131			
p,m-Xylene	9.43	0.0500	10.0	ND	94.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2323073-MSD1)Source: E306079-01Prepared: 06/08/23 Analyzed: 06/12/23

Benzene	4.99	0.0250	5.00	ND	99.7	54-133	6.42	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.1	61-133	6.67	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	6.42	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	6.49	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	6.65	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	6.60	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 9:40:55AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323073-BLK1) Prepared: 06/08/23 Analyzed: 06/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

LCS (2323073-BS2) Prepared: 06/08/23 Analyzed: 06/12/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike (2323073-MS2) Source: E306079-01 Prepared: 06/08/23 Analyzed: 06/12/23

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike Dup (2323073-MSD2) Source: E306079-01 Prepared: 06/08/23 Analyzed: 06/12/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	0.213	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 9:40:55AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324001-BLK1)					Prepared: 06/12/23 Analyzed: 06/12/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.6		50.0		75.2	50-200			

LCS (2324001-BS1)					Prepared: 06/12/23 Analyzed: 06/12/23				
Diesel Range Organics (C10-C28)	245	25.0	250		97.9	38-132			
Surrogate: n-Nonane	33.3		50.0		66.6	50-200			

Matrix Spike (2324001-MS1)					Source: E306079-04		Prepared: 06/12/23 Analyzed: 06/12/23		
Diesel Range Organics (C10-C28)	426	25.0	250	130	119	38-132			
Surrogate: n-Nonane	29.7		50.0		59.4	50-200			

Matrix Spike Dup (2324001-MSD1)					Source: E306079-04		Prepared: 06/12/23 Analyzed: 06/12/23		
Diesel Range Organics (C10-C28)	401	25.0	250	130	108	38-132	6.20	20	
Surrogate: n-Nonane	32.1		50.0		64.2	50-200			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2023 9:40:55AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2324008-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324008-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2324008-MS1)					Source: E306078-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	378	40.0	250	128	99.8	80-120			
Matrix Spike Dup (2324008-MSD1)					Source: E306078-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	408	40.0	250	128	112	80-120	7.53	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Voni East Facility Tank Battery	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/23 09:40

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company Project: Voni East Facility Tank Battery Project Manager: Ashley Giovengo Address: 3122 National Parks Highway City, State, Zip: Carlsbad, NM 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:					Bill To Attention: Clint Talley Address: On file City, State, Zip: On file Phone: 337-319-8398 Email: clinton.talley@matadorresources.com		Lab Use Only Lab WO# E306079 Job Number 28052-0001		TAT 1D 2D 3D Standard X		EPA Program CWA SDWA	
Analysis and Method							RCRA		State			
TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM TX GDOC							NM CO UT AZ TX		Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number							
10:10	6/7/23	S	1 jar	SS01-0.5'	1							
10:20	6/7/23	S	1 jar	SS01A-1'	2							
10:30	6/7/23	S	1 jar	SS01B-2'	3							
10:40	6/7/23	S	1 jar	SS02-0.5'	4							
10:50	6/7/23	S	1 jar	SS02A-1'	5							
11:00	6/7/23	S	1 jar	SS03-0.5'	6							
11:10	6/7/23	S	1 jar	SS04-0.5'	7							
11:20	6/7/23	S	1 jar	SS04-1'	8							

Additional Instructions: Preserved on ice. Please cc agiovengo@ensolum.com, cole.burton@ensolum.com and clinton.talley@matadorresources.com on lab results

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

Sampled by: Dmitry Nikanorov

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 6/8/23	Time 1030	Received by: (Signature) <i>[Signature]</i>	Date 6-8-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 T2 T3 AVG Temp °C 4
Relinquished by: (Signature) <i>[Signature]</i>	Date 6-8-23	Time 1715	Received by: (Signature) <i>[Signature]</i>	Date 6-8-23	Time 1830	
Relinquished by: (Signature) <i>[Signature]</i>	Date 6-9-23	Time 0100	Received by: (Signature) <i>[Signature]</i>	Date 6/9/23	Time 10:00	

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

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

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

Envirotech Analytical Laboratory

Printed: 6/9/2023 9:44:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/09/23 06:00	Work Order ID:	E306079
Phone:	(575) 988-0055	Date Logged In:	06/08/23 16:42	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/15/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Production Company

Project Name: Voni East Facility Tank Battery

Work Order: E306078

Job Number: 23052-0001

Received: 6/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/15/23



Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Voni East Facility Tank Battery
Workorder: E306078
Date Received: 6/9/2023 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/9/2023 6:00:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

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

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

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

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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/15/23 13:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05 - 0.5'	E306078-01A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS06 - 0.5'	E306078-02A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS07 - 0.5'	E306078-03A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.
SS08 - 0.5'	E306078-04A	Soil	06/07/23	06/09/23	Glass Jar, 2 oz.



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/15/2023 1:23:28PM
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SS05 - 0.5'

E306078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2323061	
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
<i>Surrogate: Bromofluorobenzene</i>	98.7 %	70-130		06/08/23	06/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130		06/08/23	06/09/23	
<i>Surrogate: Toluene-d8</i>	92.4 %	70-130		06/08/23	06/09/23	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2323061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
<i>Surrogate: Bromofluorobenzene</i>	98.7 %	70-130		06/08/23	06/09/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130		06/08/23	06/09/23	
<i>Surrogate: Toluene-d8</i>	92.4 %	70-130		06/08/23	06/09/23	

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2324001	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
<i>Surrogate: n-Nonane</i>	64.0 %	50-200		06/12/23	06/12/23	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2324008	
Chloride	128	40.0	2	06/12/23	06/14/23	



Sample Data

Matador Production Company 3122 National Parks HWY Carlsbad NM, 88220	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 6/15/2023 1:23:28PM
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SS06 - 0.5'

E306078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	92.5 %	70-130		06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	92.5 %	70-130		06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
Surrogate: n-Nonane	66.7 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	44.5	40.0	2	06/12/23	06/14/23	



Sample Data

Matador Production Company
3122 National Parks HWY
Carlsbad NM, 88220

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
6/15/2023 1:23:28PM

SS07 - 0.5'

E306078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene		100 %	70-130	06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	06/08/23	06/09/23	
Surrogate: Toluene-d8		92.0 %	70-130	06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene		100 %	70-130	06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	06/08/23	06/09/23	
Surrogate: Toluene-d8		92.0 %	70-130	06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
Surrogate: n-Nonane		62.5 %	50-200	06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	335	20.0	1	06/12/23	06/14/23	



Sample Data

Matador Production Company
3122 National Parks HWY
Carlsbad NM, 88220

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
6/15/2023 1:23:28PM

SS08 - 0.5'

E306078-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Benzene	ND	0.0250	1	06/08/23	06/09/23	
Ethylbenzene	ND	0.0250	1	06/08/23	06/09/23	
Toluene	ND	0.0250	1	06/08/23	06/09/23	
o-Xylene	ND	0.0250	1	06/08/23	06/09/23	
p,m-Xylene	ND	0.0500	1	06/08/23	06/09/23	
Total Xylenes	ND	0.0250	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	92.5 %	70-130		06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2323061
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/23	06/09/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/08/23	06/09/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		06/08/23	06/09/23	
Surrogate: Toluene-d8	92.5 %	70-130		06/08/23	06/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2324001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/23	06/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/23	06/12/23	
Surrogate: n-Nonane	68.2 %	50-200		06/12/23	06/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2324008
Chloride	76.1	40.0	2	06/12/23	06/14/23	



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/15/2023 1:23:28PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2323061-BLK1) Prepared: 06/08/23 Analyzed: 06/10/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS (2323061-BS1) Prepared: 06/08/23 Analyzed: 06/10/23

Benzene	2.16	0.0250	2.50		86.5	70-130			
Ethylbenzene	2.15	0.0250	2.50		86.0	70-130			
Toluene	2.20	0.0250	2.50		87.9	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
p,m-Xylene	4.43	0.0500	5.00		88.6	70-130			
Total Xylenes	6.68	0.0250	7.50		89.1	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike (2323061-MS1) Source: E306074-02 Prepared: 06/08/23 Analyzed: 06/10/23

Benzene	2.25	0.0250	2.50	ND	90.1	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.2	45-135			
Toluene	2.32	0.0250	2.50	ND	92.8	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.1	43-135			
p,m-Xylene	4.70	0.0500	5.00	ND	93.9	43-135			
Total Xylenes	7.10	0.0250	7.50	ND	94.6	43-135			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike Dup (2323061-MSD1) Source: E306074-02 Prepared: 06/08/23 Analyzed: 06/10/23

Benzene	2.20	0.0250	2.50	ND	88.0	48-131	2.38	23	
Ethylbenzene	2.22	0.0250	2.50	ND	88.6	45-135	2.89	27	
Toluene	2.26	0.0250	2.50	ND	90.4	48-130	2.69	24	
o-Xylene	2.31	0.0250	2.50	ND	92.5	43-135	3.78	27	
p,m-Xylene	4.55	0.0500	5.00	ND	90.9	43-135	3.22	27	
Total Xylenes	6.86	0.0250	7.50	ND	91.5	43-135	3.41	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/15/2023 1:23:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2323061-BLK1) Prepared: 06/08/23 Analyzed: 06/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS (2323061-BS2) Prepared: 06/08/23 Analyzed: 06/10/23

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2323061-MS2) Source: E306074-02 Prepared: 06/08/23 Analyzed: 06/10/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2323061-MSD2) Source: E306074-02 Prepared: 06/08/23 Analyzed: 06/10/23

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130	3.55	20	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/15/2023 1:23:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2324001-BLK1)					Prepared: 06/12/23 Analyzed: 06/12/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.6		50.0		75.2	50-200			

LCS (2324001-BS1)					Prepared: 06/12/23 Analyzed: 06/12/23				
Diesel Range Organics (C10-C28)	245	25.0	250		97.9	38-132			
Surrogate: n-Nonane	33.3		50.0		66.6	50-200			

Matrix Spike (2324001-MS1)					Source: E306079-04		Prepared: 06/12/23 Analyzed: 06/12/23		
Diesel Range Organics (C10-C28)	426	25.0	250	130	119	38-132			
Surrogate: n-Nonane	29.7		50.0		59.4	50-200			

Matrix Spike Dup (2324001-MSD1)					Source: E306079-04		Prepared: 06/12/23 Analyzed: 06/12/23		
Diesel Range Organics (C10-C28)	401	25.0	250	130	108	38-132	6.20	20	
Surrogate: n-Nonane	32.1		50.0		64.2	50-200			



QC Summary Data

Matador Production Company	Project Name:	Voni East Facility Tank Battery	Reported:
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/15/2023 1:23:28PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2324008-BLK1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	ND	20.0							
LCS (2324008-BS1)					Prepared: 06/12/23 Analyzed: 06/14/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2324008-MS1)					Source: E306078-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	378	40.0	250	128	99.8	80-120			
Matrix Spike Dup (2324008-MSD1)					Source: E306078-01		Prepared: 06/12/23 Analyzed: 06/14/23		
Chloride	408	40.0	250	128	112	80-120	7.53	20	

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



Definitions and Notes

Matador Production Company	Project Name:	Voni East Facility Tank Battery	
3122 National Parks HWY	Project Number:	23052-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/15/23 13:23

- 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.



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

Envirotech Analytical Laboratory

Printed: 6/9/2023 9:37:35AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	06/09/23 06:00	Work Order ID:	E306078
Phone:	(575) 988-0055	Date Logged In:	06/08/23 16:38	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/15/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni East Facility Tank Battery

Work Order: E307061

Job Number: 23052-0001

Received: 7/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/21/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/21/23

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



Project Name: Voni East Facility Tank Battery
Workorder: E307061
Date Received: 7/17/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2023 8:30:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 07/21/23 12:18
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02B-2'	E307061-01A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.
SS02C-3'	E307061-02A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.
SS02D-4'	E307061-03A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.
SS01C-3'	E307061-04A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.
SS01D-4'	E307061-05A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.
SS01E-5'	E307061-06A	Soil	07/13/23	07/17/23	Glass Mason Jar 16 oz
SS03A-2'	E307061-07A	Soil	07/13/23	07/17/23	Glass Mason Jar 16 oz
SS03B-3'	E307061-08A	Soil	07/13/23	07/17/23	Glass Mason Jar 16 oz
SS08A-0.5'	E307061-09A	Soil	07/13/23	07/17/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS02B-2'

E307061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.1 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
Surrogate: n-Nonane	87.7 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	659	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS02C-3'

E307061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.1 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	82.0 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	784	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS02D-4'

E307061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	89.1 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	159	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS01C-3'

E307061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	3630	40.0	2	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS01D-4'

E307061-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.8 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	83.1 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	8320	200	10	07/17/23	07/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/21/2023 12:18:22PM
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SS01E-5'

E307061-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2329002	
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2329002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329038	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
Surrogate: n-Nonane	87.9 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2329011	
Chloride	1220	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS03A-2'

E307061-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.0 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	199	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS03B-3'

E307061-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/19/23	
<i>Surrogate: n-Nonane</i>						
	89.8 %	50-200		07/19/23	07/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	184	20.0	1	07/17/23	07/19/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
7/21/2023 12:18:22PM

SS08A-0.5'

E307061-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Benzene	ND	0.0250	1	07/17/23	07/18/23	
Ethylbenzene	ND	0.0250	1	07/17/23	07/18/23	
Toluene	ND	0.0250	1	07/17/23	07/18/23	
o-Xylene	ND	0.0250	1	07/17/23	07/18/23	
p,m-Xylene	ND	0.0500	1	07/17/23	07/18/23	
Total Xylenes	ND	0.0250	1	07/17/23	07/18/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2329002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/23	07/18/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.0 %	70-130		07/17/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2329038
Diesel Range Organics (C10-C28)	ND	25.0	1	07/19/23	07/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/19/23	07/20/23	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		07/19/23	07/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2329011
Chloride	197	40.0	2	07/17/23	07/19/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2023 12:18:22PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2329002-BLK1) Prepared: 07/17/23 Analyzed: 07/18/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

LCS (2329002-BS1) Prepared: 07/17/23 Analyzed: 07/18/23

Benzene	4.72	0.0250	5.00		94.4	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.5	70-130			
Toluene	4.75	0.0250	5.00		94.9	70-130			
o-Xylene	4.68	0.0250	5.00		93.6	70-130			
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2329002-MS1) Source: E307061-03 Prepared: 07/17/23 Analyzed: 07/18/23

Benzene	5.29	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133			
Toluene	5.32	0.0250	5.00	ND	106	61-130			
o-Xylene	5.23	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2329002-MSD1) Source: E307061-03 Prepared: 07/17/23 Analyzed: 07/18/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	4.72	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133	4.82	20	
Toluene	5.07	0.0250	5.00	ND	101	61-130	4.81	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131	4.75	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	4.77	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	4.77	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2023 12:18:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2329002-BLK1) Prepared: 07/17/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

LCS (2329002-BS2) Prepared: 07/17/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			

Matrix Spike (2329002-MS2) Source: E307061-03 Prepared: 07/17/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			

Matrix Spike Dup (2329002-MSD2) Source: E307061-03 Prepared: 07/17/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	4.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2023 12:18:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2329038-BLK1)					Prepared: 07/19/23 Analyzed: 07/19/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			

LCS (2329038-BS1)					Prepared: 07/19/23 Analyzed: 07/19/23				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike (2329038-MS1)					Source: E307085-05		Prepared: 07/19/23 Analyzed: 07/19/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	43.3		50.0		86.6	50-200			

Matrix Spike Dup (2329038-MSD1)					Source: E307085-05		Prepared: 07/19/23 Analyzed: 07/19/23		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	3.98	20	
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2023 12:18:22PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2329011-BLK1)					Prepared: 07/17/23 Analyzed: 07/19/23				
Chloride	ND	20.0							
LCS (2329011-BS1)					Prepared: 07/17/23 Analyzed: 07/19/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2329011-MS1)					Source: E307061-01		Prepared: 07/17/23 Analyzed: 07/19/23		
Chloride	1020	20.0	250	659	143	80-120			M2
Matrix Spike Dup (2329011-MSD1)					Source: E307061-01		Prepared: 07/17/23 Analyzed: 07/19/23		
Chloride	994	20.0	250	659	134	80-120	2.19	20	M2

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/21/23 12:18

- 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.



Envirotech Analytical Laboratory

Printed: 7/17/2023 10:08:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Production Company	Date Received:	07/17/23 08:30	Work Order ID:	E307061
Phone:	(575) 988-0055	Date Logged In:	07/14/23 13:16	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	07/21/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni East Facility Tank Battery

Work Order: E311018

Job Number: 23052-0001

Received: 11/2/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/14/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/14/23

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



Project Name: Voni East Facility Tank Battery
Workorder: E311018
Date Received: 11/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/2/2023 8:15:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

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

Raina Schwanz
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/14/23 10:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 - 0'	E311018-01A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS04 - 0'	E311018-02A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS05 - 0'	E311018-03A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS06 - 0'	E311018-04A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS07 - 0'	E311018-05A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS08 - 0'	E311018-06A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS09 - 0'	E311018-07A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS10 - 0'	E311018-08A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS11 - 1'	E311018-09A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS12 - 1'	E311018-10A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS03 - 0'

E311018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	111 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	111 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	95.5 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	5780	1000	50	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS04 - 0'

E311018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	96.3 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	6670	1000	50	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS05 - 0'

E311018-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	108 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	108 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	83.3 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	9570	1000	50	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS06 - 0'

E311018-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	108 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	108 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	91.7 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	6800	400	20	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS07 - 0'

E311018-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	96.6 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	3300	400	20	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS08 - 0'

E311018-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/02/23	11/03/23	
Surrogate: Toluene-d8	109 %	70-130		11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane	93.7 %	50-200		11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	3830	400	20	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS09 - 0'

E311018-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		109 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		109 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane		97.2 %	50-200	11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	ND	400	20	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS10 - 0'

E311018-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		109 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		109 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane		97.9 %	50-200	11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	ND	400	20	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS11 - 1'

E311018-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	0.0510	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	0.835	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	1.07	0.0500	1	11/02/23	11/03/23	
Total Xylenes	1.90	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		115 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	132	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		115 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	2050	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	201	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane		123 %	50-200	11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	4980	40.0	2	11/06/23	11/07/23	



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/14/2023 10:37:05AM

FS12 - 1'

E311018-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Benzene	ND	0.0250	1	11/02/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/03/23	
Toluene	ND	0.0250	1	11/02/23	11/03/23	
o-Xylene	ND	0.0250	1	11/02/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		108 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/03/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/02/23	11/03/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/02/23	11/03/23	
Surrogate: Toluene-d8		108 %	70-130	11/02/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/05/23	
Surrogate: n-Nonane		92.4 %	50-200	11/03/23	11/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345010
Chloride	2920	100	5	11/06/23	11/07/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/14/2023 10:37:05AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2344072-BLK1)

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

LCS (2344072-BS1)

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	2.41	0.0250	2.50		96.3	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.53	0.0250	2.50		101	70-130			
o-Xylene	2.38	0.0250	2.50		95.2	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.15	0.0250	7.50		95.3	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike (2344072-MS1)

Source: E311018-05

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	2.44	0.0250	2.50	ND	97.5	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.6	43-135			
p,m-Xylene	4.79	0.0500	5.00	ND	95.8	43-135			
Total Xylenes	7.18	0.0250	7.50	ND	95.7	43-135			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike Dup (2344072-MSD1)

Source: E311018-05

Prepared: 11/02/23 Analyzed: 11/03/23

Benzene	2.46	0.0250	2.50	ND	98.4	48-131	0.919	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	2.00	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	1.35	24	
o-Xylene	2.44	0.0250	2.50	ND	97.6	43-135	1.99	27	
p,m-Xylene	4.87	0.0500	5.00	ND	97.4	43-135	1.69	27	
Total Xylenes	7.31	0.0250	7.50	ND	97.5	43-135	1.79	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/14/2023 10:37:05AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344072-BLK1) Prepared: 11/02/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

LCS (2344072-BS2) Prepared: 11/02/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.565		0.500		113	70-130			

Matrix Spike (2344072-MS2) Source: E311018-05 Prepared: 11/02/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

Matrix Spike Dup (2344072-MSD2) Source: E311018-05 Prepared: 11/02/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130	3.04	20	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.569		0.500		114	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/14/2023 10:37:05AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345010-BLK1)					Prepared: 11/06/23 Analyzed: 11/07/23				
Chloride	ND	20.0							
LCS (2345010-BS1)					Prepared: 11/06/23 Analyzed: 11/07/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2345010-MS1)					Source: E311007-02		Prepared: 11/06/23 Analyzed: 11/07/23		
Chloride	9110	1000	250	9040	27.1	80-120			M4
Matrix Spike Dup (2345010-MSD1)					Source: E311007-02		Prepared: 11/06/23 Analyzed: 11/07/23		
Chloride	9410	1000	250	9040	147	80-120	3.25	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/14/23 10:37

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program					
Project: <u>Van Eest Facility Tank Battery</u>		Attention: Matador Production Company		Lab WO# <u>E311018</u>		Job Number <u>23052.0001</u>			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		City, State, Zip:								X		
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		Analysis and Method						RCRA		
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com										State		
Email: agiovengo@ensolum.com												NM CO UT AZ TX		
Report due by:												X		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
13:55	10/31/23	Soil	1	F503 - 0'	1						X		
14:00	10/31/23	Soil	1	F504 - 0'	2						X		
11:09	10/31/23	Soil	1	F505 - 0'	3						X		
11:06	10/31/23	Soil	1	F506 - 0'	4						X		
14:30	10/31/23	Soil	1	F507 - 0'	5						X		
14:32	10/31/23	Soil	1	F508 - 0'	6						X		
14:35	10/31/23	Soil	1	F509 - 0'	7						X		
14:39	10/31/23	Soil	1	F510 - 0'	8						X		
09:29	10/31/23	Soil	1	F511 - 0'	9						X		
09:31	10/31/23	Soil	1	F512 - 0'	10						X		

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

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

Sampled by: Chad Hamilton

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	11/01/23		<u>Michelle Camp</u>	11-01-23	1040	
<u>Michelle Camp</u>	11-1-23	1530	<u>Andrew M...</u>	11-01-23	1730	
<u>Andrew M...</u>	11-1-23	2300	<u>Carth M...</u>	11-2-23	8:15	

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 11/2/2023 10:56:38AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/02/23 08:15	Work Order ID:	E311018
Phone:	(972) 371-5200	Date Logged In:	11/01/23 17:11	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	11/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni East Facility Tank Battery

Work Order: E311017

Job Number: 23052-0001

Received: 11/2/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/13/23

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



Project Name: Voni East Facility Tank Battery
Workorder: E311017
Date Received: 11/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/2/2023 8:15:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

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

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Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/13/23 12:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0-1'	E311017-01A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.



Case Narrative:

Project Name: Voni East Facility Tank Battery

Workorder:E311017

Date Received: 11/02/23 08:15

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
SW01-0-1'	E311017-01	GRO/DRO/ORO by EPA 8015

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



Sample Data

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

Project Name: Voni East Facility Tank Battery
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/13/2023 12:50:08PM

SW01 - 0-1'

E311017-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2344071	
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	0.162	0.0250	1	11/02/23	11/05/23	
Toluene	0.322	0.0250	1	11/02/23	11/05/23	
o-Xylene	1.43	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	2.83	0.0500	1	11/02/23	11/05/23	
Total Xylenes	4.25	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2345073	
Gasoline Range Organics (C6-C10)	21.2	20.0	1	11/10/23	11/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	11/10/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2345083	
Diesel Range Organics (C10-C28)	683	25.0	1	11/03/23	11/10/23	
Oil Range Organics (C28-C36)	88.8	50.0	1	11/03/23	11/10/23	
<i>Surrogate: n-Nonane</i>						
		84.6 %	50-200	11/03/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2345010	
Chloride	3900	400	20	11/06/23	11/07/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/13/2023 12:50:08PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344071-BLK1) Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			

LCS (2344071-BS1) Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike (2344071-MS1) Source: E311019-02 Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.44	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			

Matrix Spike Dup (2344071-MSD1) Source: E311019-02 Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	7.34	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	7.54	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	7.47	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	7.41	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	7.50	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	7.47	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/13/2023 12:50:08PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345073-BLK1)					Prepared: 11/09/23 Analyzed: 11/10/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2345073-BS2)					Prepared: 11/09/23 Analyzed: 11/10/23				
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2345073-MS2)					Source: E311060-02		Prepared: 11/09/23 Analyzed: 11/10/23		
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	84.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike Dup (2345073-MSD2)					Source: E311060-02		Prepared: 11/09/23 Analyzed: 11/10/23		
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130	3.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/13/2023 12:50:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345083-BLK1)					Prepared: 11/09/23 Analyzed: 11/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.9	50-200			

LCS (2345083-BS1)					Prepared: 11/09/23 Analyzed: 11/10/23				
Diesel Range Organics (C10-C28)	246	25.0	250		98.6	38-132			
Surrogate: n-Nonane	49.9		50.0		99.9	50-200			

Matrix Spike (2345083-MS1)					Source: E311038-04		Prepared: 11/09/23 Analyzed: 11/10/23		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	51.8		50.0		104	50-200			

Matrix Spike Dup (2345083-MSD1)					Source: E311038-04		Prepared: 11/09/23 Analyzed: 11/10/23		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	1.55	20	
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/13/2023 12:50:08PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345010-BLK1)					Prepared: 11/06/23 Analyzed: 11/07/23				
Chloride	ND	20.0							
LCS (2345010-BS1)					Prepared: 11/06/23 Analyzed: 11/07/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2345010-MS1)					Source: E311007-02		Prepared: 11/06/23 Analyzed: 11/07/23		
Chloride	9110	1000	250	9040	27.1	80-120			M4
Matrix Spike Dup (2345010-MSD1)					Source: E311007-02		Prepared: 11/06/23 Analyzed: 11/07/23		
Chloride	9410	1000	250	9040	147	80-120	3.25	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/13/23 12:50

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

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

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



[illegible]

Envirotech Analytical Laboratory

Printed: 11/2/2023 10:51:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/02/23 08:15	Work Order ID:	E311017
Phone:	(972) 371-5200	Date Logged In:	11/01/23 17:10	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	11/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni East Facility Tank Battery

Work Order: E311120

Job Number: 23052-0001

Received: 11/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/16/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/16/23

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



Project Name: Voni East Facility Tank Battery
Workorder: E311120
Date Received: 11/15/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2023 8:20:00AM, under the Project Name: Voni East Facility Tank Battery.

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

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

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

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

Respectfully,

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

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/16/23 16:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS11-2'	E311120-01A	Soil	11/13/23	11/15/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/16/2023 4:48:53PM
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FS11-2'

E311120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2346043	
Benzene	ND	0.0250	1	11/15/23	11/15/23	
Ethylbenzene	0.0649	0.0250	1	11/15/23	11/15/23	
Toluene	0.0268	0.0250	1	11/15/23	11/15/23	
o-Xylene	0.351	0.0250	1	11/15/23	11/15/23	
p,m-Xylene	1.11	0.0500	1	11/15/23	11/15/23	
Total Xylenes	1.47	0.0250	1	11/15/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		11/15/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2346043	
Gasoline Range Organics (C6-C10)	48.5	20.0	1	11/15/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		11/15/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346051	
Diesel Range Organics (C10-C28)	662	25.0	1	11/15/23	11/15/23	
Oil Range Organics (C28-C36)	75.6	50.0	1	11/15/23	11/15/23	
Surrogate: n-Nonane	97.3 %	50-200		11/15/23	11/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346055	
Chloride	2380	20.0	1	11/15/23	11/15/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/16/2023 4:48:53PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2346043-BLK1) Prepared: 11/15/23 Analyzed: 11/15/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

LCS (2346043-BS1) Prepared: 11/15/23 Analyzed: 11/15/23

Benzene	4.93	0.0250	5.00		98.6	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.8	70-130			
Toluene	4.93	0.0250	5.00		98.7	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.7	0.0250	15.0		97.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	70-130			

Matrix Spike (2346043-MS1) Source: E311119-22 Prepared: 11/15/23 Analyzed: 11/15/23

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133			
Toluene	4.81	0.0250	5.00	ND	96.2	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.57	0.0500	10.0	ND	95.7	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike Dup (2346043-MSD1) Source: E311119-22 Prepared: 11/15/23 Analyzed: 11/15/23

Benzene	5.08	0.0250	5.00	ND	102	54-133	5.48	20	
Ethylbenzene	4.90	0.0250	5.00	ND	97.9	61-133	5.55	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	5.42	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	5.47	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	5.46	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	5.46	20	
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/16/2023 4:48:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346043-BLK1) Prepared: 11/15/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2346043-BS2) Prepared: 11/15/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike (2346043-MS2) Source: E311119-22 Prepared: 11/15/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			

Matrix Spike Dup (2346043-MSD2) Source: E311119-22 Prepared: 11/15/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130	0.380	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/16/2023 4:48:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346051-BLK1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.9	50-200			

LCS (2346051-BS1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	241	25.0	250		96.6	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike (2346051-MS1)					Source: E311119-24		Prepared: 11/15/23 Analyzed: 11/15/23		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike Dup (2346051-MSD1)					Source: E311119-24		Prepared: 11/15/23 Analyzed: 11/15/23		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.8	38-132	4.10	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East Facility Tank Battery Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/16/2023 4:48:53PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346055-BLK1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Chloride	ND	20.0							
LCS (2346055-BS1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2346055-MS1)					Source: E311119-25		Prepared: 11/15/23 Analyzed: 11/15/23		
Chloride	280	20.0	250	27.1	101	80-120			
Matrix Spike Dup (2346055-MSD1)					Source: E311119-25		Prepared: 11/15/23 Analyzed: 11/15/23		
Chloride	281	20.0	250	27.1	102	80-120	0.300	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni East Facility Tank Battery	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/16/23 16:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



[illegible]

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

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

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 11/14/23	Time	Received by: (Signature) <i>[Signature]</i>	Date 11-14-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature) <i>[Signature]</i>	Date 11-14-23	Time 1100	Received by: (Signature) <i>[Signature]</i>	Date 11-14-23	Time 1800	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <i>[Signature]</i>	Date 11-14-23	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 11/15/23	Time 8:20	AVG Temp °C <u>4</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		

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

Envirotech Analytical Laboratory

Printed: 11/15/2023 12:06:34PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/15/23 08:20	Work Order ID:	E311120
Phone:	(972) 371-5200	Date Logged In:	11/14/23 16:57	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	11/15/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni East TB

Work Order: E405306

Job Number: 23003-0002

Received: 5/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/3/24

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



Project Name: Voni East TB
Workorder: E405306
Date Received: 5/22/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2024 9:00:00AM, under the Project Name: Voni East TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/03/24 13:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05A - 0'	E405306-01A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS06A - 0'	E405306-02A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
SS08B - 0'	E405306-03A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
FS13 - 0'	E405306-04A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.
Fs14 - 0'	E405306-05A	Soil	05/20/24	05/22/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/3/2024 1:01:08PM
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SS05A - 0'
E405306-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Benzene	ND	0.0250	1	05/24/24	05/27/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/27/24	
Toluene	ND	0.0250	1	05/24/24	05/27/24	
o-Xylene	ND	0.0250	1	05/24/24	05/27/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/27/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422092	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/02/24	
Surrogate: n-Nonane	111 %	50-200		05/30/24	06/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421186	
Chloride	221	40.0	2	05/25/24	05/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/3/2024 1:01:08PM
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SS06A - 0'
E405306-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Benzene	ND	0.0250	1	05/24/24	05/27/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/27/24	
Toluene	ND	0.0250	1	05/24/24	05/27/24	
o-Xylene	ND	0.0250	1	05/24/24	05/27/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/27/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422092	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/02/24	
Surrogate: n-Nonane	112 %	50-200		05/30/24	06/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421186	
Chloride	ND	40.0	2	05/25/24	05/26/24	



Sample Data

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

Project Name: Voni East TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/3/2024 1:01:08PM

SS08B - 0'

E405306-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Benzene	ND	0.0250	1	05/24/24	05/27/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/27/24	
Toluene	ND	0.0250	1	05/24/24	05/27/24	
o-Xylene	ND	0.0250	1	05/24/24	05/27/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/27/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2422092	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/02/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		05/30/24	06/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2421186	
Chloride	403	100	5	05/25/24	05/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni East TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/3/2024 1:01:08PM
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FS13 - 0'

E405306-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Benzene	ND	0.0250	1	05/24/24	05/27/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/27/24	
Toluene	ND	0.0250	1	05/24/24	05/27/24	
o-Xylene	ND	0.0250	1	05/24/24	05/27/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/27/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422092	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/02/24	
Surrogate: n-Nonane	95.3 %	50-200		05/30/24	06/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421186	
Chloride	5290	200	10	05/25/24	05/26/24	



Sample Data

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

Project Name: Voni East TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/3/2024 1:01:08PM

Fs14 - 0'

E405306-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Benzene	ND	0.0250	1	05/24/24	05/27/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/27/24	
Toluene	ND	0.0250	1	05/24/24	05/27/24	
o-Xylene	ND	0.0250	1	05/24/24	05/27/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/27/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.3 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		05/24/24	05/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422092	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/24	06/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/24	06/02/24	
<i>Surrogate: n-Nonane</i>	112 %	50-200		05/30/24	06/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421186	
Chloride	3120	200	10	05/25/24	05/26/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2024 1:01:08PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421143-BLK1) Prepared: 05/24/24 Analyzed: 05/27/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			

LCS (2421143-BS1) Prepared: 05/24/24 Analyzed: 05/27/24

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

LCS Dup (2421143-BSD1) Prepared: 05/24/24 Analyzed: 05/27/24

Benzene	5.00	0.0250	5.00		99.9	70-130	3.28	20	
Ethylbenzene	4.74	0.0250	5.00		94.7	70-130	3.00	20	
Toluene	4.94	0.0250	5.00		98.9	70-130	3.24	20	
o-Xylene	4.85	0.0250	5.00		97.0	70-130	3.12	20	
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130	2.89	20	
Total Xylenes	14.6	0.0250	15.0		97.5	70-130	2.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2024 1:01:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421143-BLK1) Prepared: 05/24/24 Analyzed: 05/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

LCS (2421143-BS2) Prepared: 05/24/24 Analyzed: 05/27/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			

LCS Dup (2421143-BSD2) Prepared: 05/24/24 Analyzed: 05/27/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.2	70-130	2.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2024 1:01:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422092-BLK1)					Prepared: 05/30/24 Analyzed: 06/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2422092-BS1)					Prepared: 05/30/24 Analyzed: 06/01/24				
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS Dup (2422092-BSD1)					Prepared: 05/30/24 Analyzed: 06/01/24				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132	2.89	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni East TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2024 1:01:08PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421186-BLK1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	ND	20.0							
LCS (2421186-BS1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2421186-BSD1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	252	20.0	250		101	90-110	1.04	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni East TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/03/24 13:01

- 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.



envirotecl

Envirotech Analytical Laboratory

Printed: 5/25/2024 2:28:04PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/22/24 09:00	Work Order ID:	E405306
Phone:	(972) 371-5200	Date Logged In:	05/21/24 18:02	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	05/30/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX F

Email Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [clinton.talley@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: (Final Extension) - Matador - Voni East Facility Tank Battery -Incident Number nAPP2313247620
Date: Monday, November 13, 2023 9:29:27 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2313247620**

Ashley,

Your request for an extension to **November 30th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, November 13, 2023 8:34 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] RE: (Extension Approval) - Matador - Voni East Facility Tank Battery -Incident Number nAPP2313247620

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

Hello,

Due to excessive rains and project delays, the confirmation sampling at the Voni East Facility Tank Battery will be completed today (11/13/2023). Matador would like to request an extension of the

approved deadline of November 08, 2023, until 11/30/2023 for the purpose of receiving laboratory analytical results and completing a closure report per 19.15.29.12.B.(1) NMAC. Please let me know if you have any additional questions.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f t

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Sent: Friday, August 11, 2023 11:19 AM

To: Ashley Giovengo <agiovengo@ensolum.com>

Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: (Extension Approval) - Matador - Voni East Facility Tank Battery -Incident Number nAPP2313247620

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

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2313247620**

Ashley,

Your request for an extension to **November 8th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, August 7, 2023 1:47 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador - Extension Request -Voni East Facility Tank Battery -Incident Number nAPP2313247620

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, August 7, 2023 10:53 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Matador - Extension Request -Voni East Facility Tank Battery -Incident Number nAPP2313247620

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

All,

Matador is requesting an extension for the current deadline of August 10, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Voni East Facility Tank Battery (Incident Number nAPP2313247620). The release occurred on May 12, 2023, and initial site assessment and delineation activities have been completed. In order to determine depth to water at the Site, Matador has contracted Atkins Engineering Associates to complete a depth to water boring on September 05, 2023. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Matador will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests a 90-day extension until November 08, 2023.

Thanks,



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

From: [Wells, Shelly, EMNRD](#)
To: [Ashley Giovengo](#); clinton.talley@matadorresources.com; [Morgan, Crisha A](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] RE: 48-hour Confirmation Sampling Notification - Matador Production Company - Voni East Facility Tank Battery - Incident Number nAPP2313247620
Date: Monday, November 13, 2023 9:18:08 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Ashley,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Friday, November 10, 2023 8:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Morgan, Crisha A <camorgan@blm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>
Subject: [EXTERNAL] RE: 48-hour Confirmation Sampling Notification - Matador Production Company - Voni East Facility Tank Battery - Incident Number nAPP2313247620

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

Hello,

Ensolum personnel will be returning to the Site to re-collect 2 confirmation floor samples on Monday 11/13/2023 at 09:00 am MST.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f t

From: Ashley Giovengo
Sent: Monday, October 30, 2023 10:41 AM
To: 'Enviro, OCD, EMNRD' <ocd.enviro@emnrd.nm.gov>; 'clinton.talley@matadorresources.com' <clinton.talley@matadorresources.com>; 'Morgan, Crisha A' <camorgan@blm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>
Subject: RE: 48-hour Confirmation Sampling Notification - Matador Production Company - Voni East Facility Tank Battery - Incident Number nAPP2313247620

Hello,

Please extend this confirmation sampling notification to Wednesday November 01, 2023. Excavation of the release extent was delayed due to weather conditions.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f t

From: Ashley Giovengo
Sent: Friday, October 20, 2023 10:04 AM
To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Morgan, Crisha A <camorgan@blm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>
Subject: 48-hour Confirmation Sampling Notification - Matador Production Company - Voni East Facility Tank Battery - Incident Number nAPP2313247620

Hello,

We intend to collect confirmation samples at Matador Production Company's, Voni East Facility Tank Battery site (Incident Number nAPP2313247620) beginning on Thursday, October 26, 2023, at 09:00

am MST through Friday, October 27, 2023.

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

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

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

QUESTIONS

Action 344315

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 344315
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313247620
Incident Name	NAPP2313247620 VONI EAST FACILITY TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202575165] Voni East Facility Tank Battery

Location of Release Source

Site Name	VONI EAST FACILITY TB
Date Release Discovered	05/12/2023
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	4,519
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.03343, -103.77998

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

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

CONDITIONS

Action 344315

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 344315
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/14/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 405752

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313247620
Incident Name	NAPP2313247620 VONI EAST FACILITY TB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2202575165] Voni East Facility Tank Battery

Location of Release Source*Please answer all the questions in this group.*

Site Name	VONI EAST FACILITY TB
Date Release Discovered	05/12/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Repair and Maintenance Dump Line Produced Water Released: 46 BBL Recovered: 0 BBL Lost: 46 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 405752

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/22/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 405752

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	15900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9368
GRO+DRO (EPA SW-846 Method 8015M)	8568
BTEX (EPA SW-846 Method 8021B or 8260B)	43
Benzene (EPA SW-846 Method 8021B or 8260B)	2
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	10/30/2023
On what date will (or did) the final sampling or liner inspection occur	05/20/2024
On what date will (or was) the remediation complete(d)	11/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	2507
What is the estimated volume (in cubic yards) that will be reclaimed	186
What is the estimated surface area (in square feet) that will be remediated	2094
What is the estimated volume (in cubic yards) that will be remediated	140
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

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

QUESTIONS, Page 4

Action 405752

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360 Hobbs
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/22/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 405752

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank battery containment, process pipping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2507
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	186
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Voni East Facility Tank Battery [fAPP202575165]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/22/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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QUESTIONS, Page 6

Action 405752

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	344315
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	4519

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 405752

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405752
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of area around production equipment/pipelines delineated laterally by SS05A, SS06A, SS07, and SS08B and delineated vertically by SS01F is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	12/2/2024