

February 27, 2025

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

Re: Closure Request

General Kehoe #228H

Incident Number nAPP2420927733

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the General Kehoe #228 (Site). The Site is located in Unit A, Section 02, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.2537958°, -104.0519572°) and is associated with oil and gas exploration and production operations on Private Land.

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. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2420927733.

BACKGROUND

On July 26, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 71 barrels (bbls) of produced water onto the sandy pipeline right-of-way (ROW); 20 bbls of produced water were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on July 27, 2024, and the release was subsequently assigned Incident Number nAPP2420927733.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring C 4901 POD1, located approximately 0.27 miles southwest of the Site. The well had a reported depth to groundwater greater than 52 feet below ground surface (bgs) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as

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shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater conditions. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a 100-year flood plain, located approximately 2,317 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

On December 30, 2024, Ensolum personnel conducted soil sampling around the Site to assess for the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of four background samples (BG01 through BG04) were collected in areas that did not appear to be disturbed by oil and gas operations and at depths ranging from ground surface to 6 feet bgs. Background soil sample locations are presented on Figure 3. Background soil samples were placed directly into precleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Field screening results and lithologic observations were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

NMOCD approved a background chloride concentration limit, via email on January 31, 2025, of vertical delineation of chloride concentrations that reduce to a concentration below 1,000 mg/kg before increasing again, and a concentration of 1,267 mg/kg for chloride and 100 mg/kg for TPH in sidewall confirmation samples at the Site (see Appendix E).



SITE ASSESSMENT ACTIVITIES

On July 26, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix C.

DELINEATION SOIL SAMPLING ACTIVITIES

On August 14, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. One delineation soil sample (SS04) was collected from around the release extent at ground surface to assess the release. Five boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release. Boreholes BH01 through BH05 were all advanced to a depth of 6 feet bgs with the exception of borehole BH02, which was advanced to a depth of 5.5 feet bgs.

On August 14, 2024, Ensolum personnel returned to the Site to conduct lateral delineation sampling activities. Five delineation soil sample SS01 through SS03, SS05, and SS06 were collected from around the release extent at ground surface to assess the lateral extent of release.

On December 30 and 31, 2024 and January 3 and 6, 2025, Ensolum personnel were onsite to continue vertical delineation sampling activities. Five potholes were advanced via trackhoe within the release extent to assess the vertical extent of the release. Potholes BH01, BH04, and BH05 were advanced to a depth of 18 feet bgs, pothole BH02 was advanced to a depth of 10 feet bgs, and pothole BH03 was advanced to a depth of 9 feet bgs.

Discrete delineation soil samples were collected from each borehole and field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 2. Soil samples were handled and analyzed as described above.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on December 17, 2024, impacted and waste-containing soil was excavated from the off-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a trackhoe, front-end loader, and transport vehicles.

Following the removal of impacted and waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS26) were collected from the floor of the excavation at depths ranging from 4 feet to 5 feet bgs. Confirmation sidewall soil samples (SW01 through SW11) were collected at depths ranging from ground surface to 4 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The final excavation extent measured approximately 5,185 square feet. A total of approximately 1,368 cubic yards of impacted and waste-containing soil was removed during the excavation activities.



The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS06), collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the reclamation requirement. Laboratory analytical results indicated GRO+DRO concentrations exceeded Site Closure Criteria at ground surface in borehole BH01 through BH03 and BH05, TPH concentrations exceeded the Site Closure Criteria at ground surface in boreholes BH02, BH03 and BH05, BTEX concentrations exceeded Site Closure Criteria at ground surface in boreholes BH02 and BH03, and chloride concentrations at surface in BH02. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the approved naturally occurring chloride variance at a depth of 8 feet bgs in borehole BH01, 6 feet bgs in borehole BH02, 2 feet bgs in borehole BH03, 10 feet bgs in BH04, and 4 feet bgs in BH05.

Laboratory analytical results for excavation floor soil samples FS01 through FS26 indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from 4 feet to 5 feet bgs and with the reclamation requirement. Laboratory analytical results for confirmation side wall samples (SW01 though SW11) indicated COC concentrations were all in compliance with the approved chloride variance. Laboratory analytical results are summarized in Tables 1, 2, 3, and 4 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I at surface by delineation soil samples (SS01 through SS05, laterally defined to the accepted chloride variance below ground surface by sidewall soil sample SW01 through SW11 collected at 0-4 feet bgs, and vertically by boreholes (BH01 through BH05), collected at depths between ground surface and 18 feet bgs. Excavation of the waste-containing soil area off pad was completed, and excavation floor samples (FS01 through FS26), collected at depths ranging from 4 feet to 5 feet bgs, and confirmation sidewall soil samples (SW01 through SW11), collected from ground surface to 4-feet bgs, were all in compliance with the Site Closure Criteria, the reclamation requirement, and the approved chloride variance.

Based on the remedial actions completed to date and a depth to groundwater greater than 52 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2420927733.

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



Sincerely, Ensolum, LLC

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

Appendices:

Figure 1 Site Receptor Map Figure 2 **Delineation Soil Sample Locations** Figure 3 **Excavation Soil Sample Locations** Table 1 Soil Sample Analytical Results (Delineation Soil Samples) Table 2 Soil Sample Analytical Results (Excavation Floor Soil Samples) Soil Sample Analytical Results (Sidewall Soil Samples) Table 3 Well Log and Record Appendix A

Lithologic / Soil Sampling Logs Appendix B

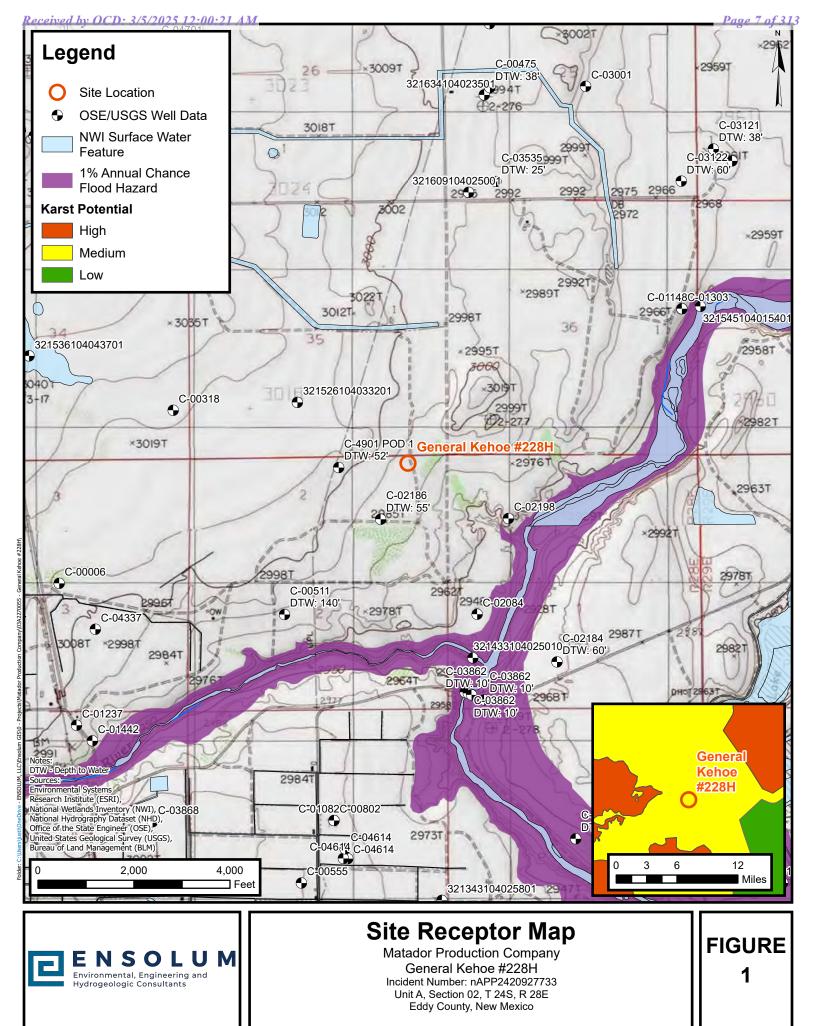
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

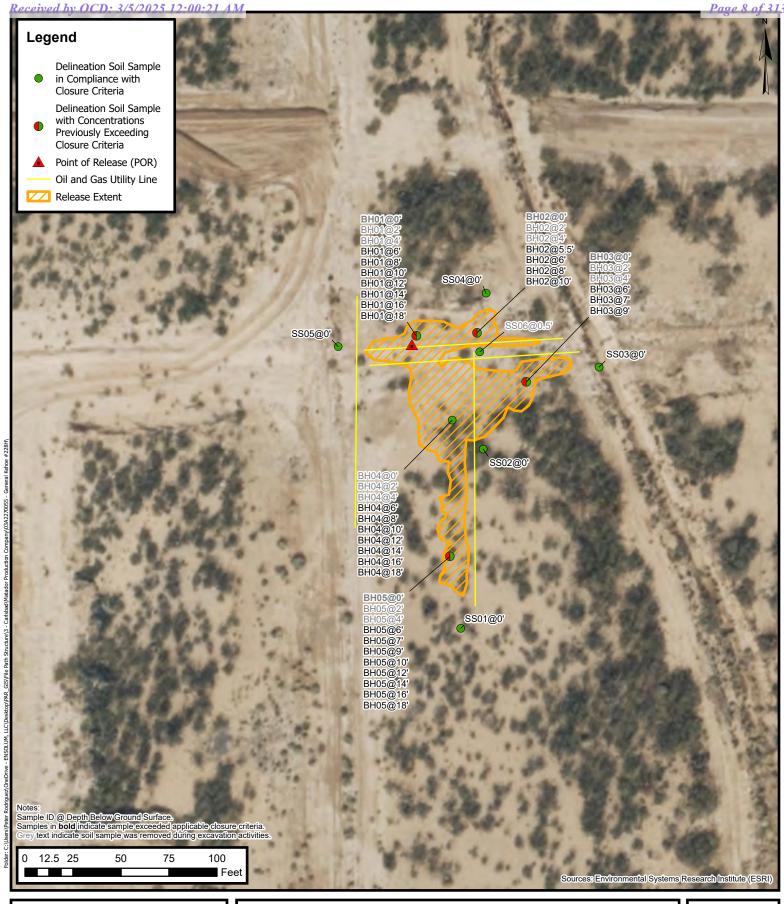
Appendix E **Email Correspondence**



FIGURES



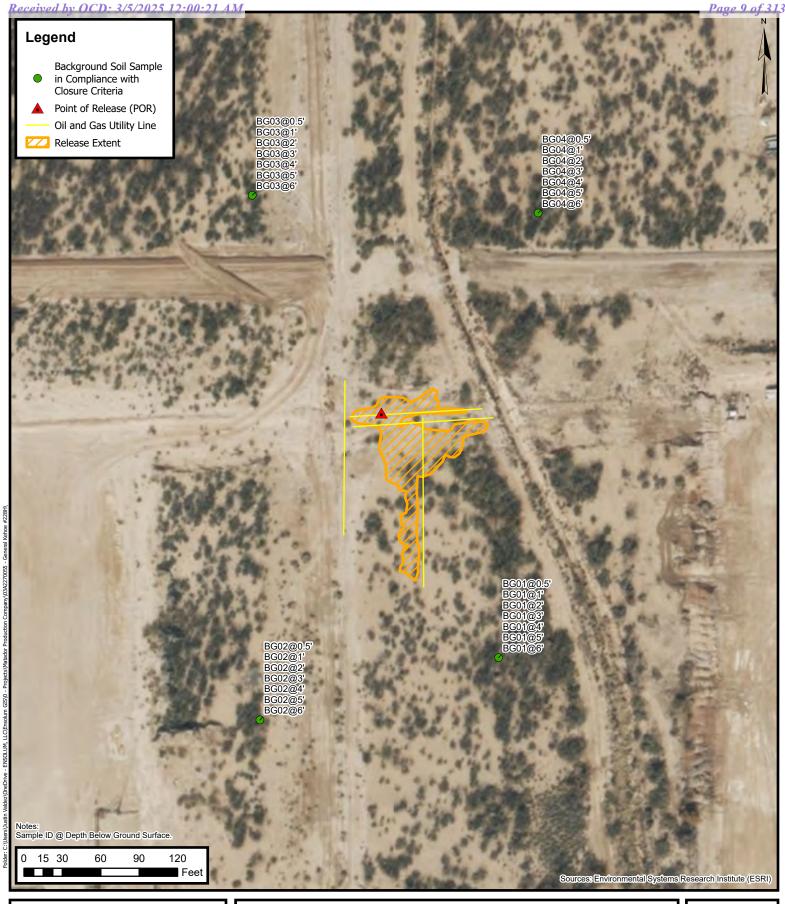
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Delineation Soil Sample Locations

Matador Production Company General Kehoe #228H Incident Number: nAPP2420927733 Unit A, Section 02, T 24S, R 28E Eddy County, New Mexico FIGURE 2





Background Soil Sample Locations

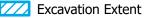
Matador Production Company General Kehoe #228H Incident Number: nAPP2420927733 Unit A, Section 02, T24S, R 28E Eddy County, New Mexico FIGURE 3

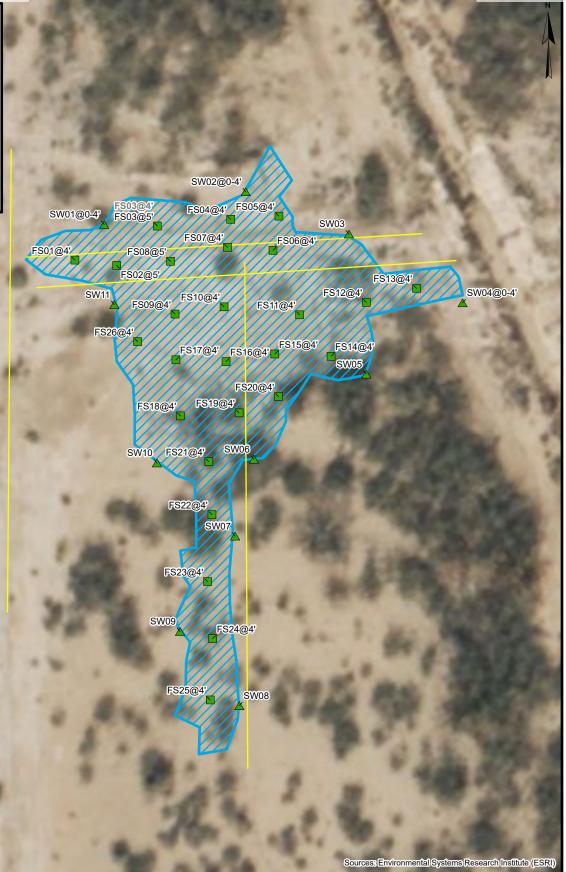
Legend Excav

- Excavation Floor Samplein Compliance with
- Closure Criteria
- with Closure Criteria
 Oil and Gas Utility Line

Excavation Sidewall Sample in Compliance

Cycey ation Dytant







Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable
closure criteria.
Grey text indicate soil sample was removed during

20

excavation activities.

Confirmation Soil Sample Location

Matador Production Company General Kehoe #228H Incident Number: nAPP2420927733 Unit A, Section 02, T24S, R28E Eddy County, New Mexico FIGURE 4

40 ■ Feet



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS General Kehoe #228H Matador Production Company

Eddy County, New Mexico Sample Benzene **Total BTEX TPH GRO TPH DRO TPH ORO** GRO+DRO **Total TPH** Chloride Depth Date Designation (mg/kg) (mg/kg) (mg/kg) (feet bgs) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) NMOCD Table I Closure Criteria (NMAC 19.15.29) 10 50 NE NE NE 1.000 2,500 10.000 **Delineation Soil Samples SS01** 11/19/2024 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 <20.0 0 SS02 11/19/2024 0 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 125 SS03 11/19/2024 0 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 123 SS04 8/14/2024 0 < 0.0250 0.0585 <20.0 <25.0 <25.0 <50.0 257 <50.0 SS05 11/19/2024 0 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 213 <50.0 SS06 11/19/2024 0 < 0.0250 < 0.0500 <20.0 <25.0 < 50.0 <25.0 <20.0 8/14/2024 9.127 224 1.867 2.091 0 1.690 2 **BH01** 8/14/2024 < 0.0250 < 0.0500 <20.0 31.7 < 50.0 31.7 2,120 **BH01** 8/14/2024 < 0.0250 < 0.0500 <20.0 <25.0 < 50.0 <25.0 < 50.0 2,500 4 8/14/2024 6 < 0.0250 <20.0 <25.0 <25.0 <50.0 4,800 **BH01** < 0.0500 <50.0 BH01 1/3/2025 8 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 686 BH01 10 < 0.0250 <20.0 <25.0 <50.0 <25.0 <50.0 1/3/2025 < 0.0500 500 BH01 12 < 0.0250 <20.0 <25.0 <50.0 <25.0 <50.0 654 1/3/2025 < 0.0500 14 <20.0 <25.0 <25.0 **BH01** 1/3/2025 < 0.0250 < 0.0500 <50.0 <50.0 712 BH01 16 < 0.0250 <20.0 <25.0 <50.0 <25.0 <50.0 773 1/3/2025 < 0.0500 **BH01** 1/3/2025 18 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 1.220 276 21.726 **BH02** 8/14/2024 0 1.1688 24.8488 18.700 2.750 18.976 11,600 BH02 8/14/2024 2 < 0.0250 < 0.0500 <20.0 149 < 50.0 149 149 2,280 BH02 8/14/2024 < 0.0250 < 0.0500 <20.0 80.4 < 50.0 80.4 80.4 1,020 4 **BH02** 8/14/2024 5.5 < 0.0250 < 0.0500 <20.0 263 51.5 263 314.5 3,780 6 BH02 1/6/2025 < 0.0250 < 0.0500 <20.0 <25.0 < 50.0 <25.0 <50.0 206 **BH02** 1/6/2025 8 < 0.0250 < 0.0500 <20.0 <25.0 < 50.0 <25.0 <50.0 373 BH02 1/6/2025 10 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 416 **BH03** 8/14/2024 0 3.92 78.15 770 10.200 1.370 10.970 12.340 5.030 **BH03** 8/14/2024 2 < 0.0250 < 0.0500 <20.0 <25.0 < 50.0 <25.0 3,040 **BH03** 8/14/2024 4 < 0.0500 <20.0 <25.0 < 50.0 <25.0 479 BH03 8/14/2024 6 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 746 BH03 1/6/2025 7 < 0.0250 < 0.0500 <20.0 <25.0 <50.0 <25.0 <50.0 766 9 <20.0 **BH03** 1/6/2025 < 0.0250 < 0.0500 <25.0 <50.0 <25.0 < 50.0 539 8/14/2024 **BH04** () <20.0 174 105 174 279 1.770



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

General Kehoe #228H **Matador Production Company** Eddy County, New Mexico

				Eady	County, New M	exico				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delin	eation Soil San	nples				
BH04	8/14/2024	2	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,970
BH04	8/14/2024	4	< 0.0250	< 0.0500	<20.0	33.1	<50.0	33.1	33.1	2,240
BH04	8/14/2024	6	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,170
BH04	1/6/2025	8	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BH04	1/6/2025	10	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	884
BH04	1/6/2025	12	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	990
BH04	1/6/2025	14	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	893
BH04	1/6/2025	16	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,010
BH04	1/6/2025	18	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,190
BH05	8/14/2024	0	0.252	3.957	58.1	20,100	3,110	20,158.1	23,268.1	5,310
BH05	8/14/2024	2	< 0.0250	< 0.0500	<20.0	40.6	<50.0	40.6	40.6	1,960
BH05	8/14/2024	4	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	656
BH05	8/14/2024	6	<0.0250	< 0.0500	<20.0	119	<50.0	119	119	1,060
BH05	1/3/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	780
BH05	1/3/2025	9	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	480
BH05	1/6/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,220
BH05	1/6/2025	12	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,120
BH05	1/6/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
BH05	1/6/2025	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BH05	1/6/2025	18	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,750

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.

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

^{*} 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.



TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS General Kehoe #228H

Matador Production Company
Eddy County, New Mexico

				Eddy	County, New Mo	exico				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Backgrou	nd Soil Sample	Locations				
BG01	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BG01	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	395
BG01	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	722
BG01	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	744
BG01	12/30/2024	4	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	495
BG01	12/30/2024	5	< 0.0250	< 0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	457
BG01	12/31/2024	6	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	625
BG02	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	137
BG02	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,950
BG02	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,840
BG02	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,640
BG02	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	948
BG02	12/30/2024	5	< 0.0250	< 0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	964
BG02	12/31/2024	6	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,040
BG03	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	538
BG03	12/30/2024	1	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	525
BG03	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	833
BG03	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,040
BG03	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	590
BG03	12/30/2024	5	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	583
BG03	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	611



TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS

General Kehoe #228H **Matador Production Company**

				Eddy	y County, New Me	exico				
Sample Date		Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Backgrou	nd Soil Sample	Locations				
BG04	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BG04	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,800
BG04	12/30/2024	2	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,980
BG04	12/30/2024	3	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,740
BG04	12/30/2024	4	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	759
BG04	12/30/2024	5	< 0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	673
BG04	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	744

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 3 SOIL SAMPLE ANALYTICAL RESULTS General Kehoe #228H

Matador Production Company Eddy County, New Mexico

				Eddy	County, New Mo	exico				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excava	tion Floor Soil S	amples				
FS01	12/17/2024	4	<0.0250	<0.0500	<20.0	314	<50.0	314	314	576
FS02	12/18/2024	5	<0.0250	<0.0500	<20.0	193	54.5	193	247.5	3,810
FS03	12/17/2024	4	< 0.0250	2.058	138	1,130	161.0	1,268	1,429	2,300
FS03	1/3/2024	5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	657
FS04	12/18/2024	4	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,410
FS05	12/18/2024	4	< 0.0250	<0.0500	<20.0	86.4	<50.0	86.4	86.4	3,260
FS06	12/18/2024	4	< 0.0250	0.0778	<20.0	102	<50.0	102	102	4,960
FS07	12/18/2024	4	< 0.0250	0.8007	<20.0	442	80.1	442	522.1	1,890
FS08	12/19/2024	5	< 0.0250	<0.0500	<20.0	209	56.6	209	265.6	5,520
FS09	12/18/2024	4	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	647
FS10	12/18/2024	4	< 0.0250	<0.0500	<20.0	117	<50.0	117	117	4,220
FS11	12/18/2024	4	<0.0250	<0.0500	<20.0	34.5	<50.0	34.5	34.5	1,430
FS12	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,910
FS13	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,030
FS14	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
FS15	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,420
FS16	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,940
FS17	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,340
FS18	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,150
FS19	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,650
FS20	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,470
FS21	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,260



TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS

General Kehoe #228H Matador Production Company Eddy County, New Mexico

	Eddy County, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
				Excava	ation Floor Soil S	amples							
FS22	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,740			
FS23	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,050			
FS24	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290			
FS25	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280			
FS26	12/18/2024	4	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	886			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

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NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

[&]quot;<": Laboratory Analytical result is less than reporting limit

^{*} 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



TABLE 4

SOIL SAMPLE ANALYTICAL RESULTS

General Kehoe #228H **Matador Production Company** Eddy County, New Mexico

				Luuj	County, New Wi	SAICO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Sic	dewall Soil Samp	les				
SW01	12/20/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	385
SW02	12/20/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	356
SW03	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<100
SW04	12/20/2024	0-4	<0.0250	<0.0500	<20.0	45.8	<50.0	45.8	45.8	428
SW05	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	251
SW06	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	515
SW07	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	202
SW08	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	487
SW09	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	792
SW10	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	660
SW11	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	488

Notes:

bgs: below ground surface

NMOCD: New Mexico Oil Conservation Division

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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.

DRO: Diesel Range Organics mg/kg: milligrams per kilogram ORO: Oil Range Organics

GRO: Gasoline Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

ENSOLUM

APPENDIX A

Well Log & Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO (W	ELL NO)	W	ELL TAG ID NO)		OSE FILE NO					
CATION	WELL OWNER Matador Prod				•			PHONE (OPT					
VELL LO	WELL OWNER N	AILING						CITY Artesia		STATE NM 88210	ZIP		
1. GENERAL AND WELL LOCATION	WELL LOCATION	LAT	DE	GREES 32	MINUTES 15	SECONDS 12.89	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
ER	(FROM GPS)	LO	NGITUDE	104	03	23.87	W	* DATUM RE	QUIRED; WGS 84				
1. GEN			G WELL LOCATION TO C 24S, R28E, Eddy (AND COMMO	N LANDMARK	S – PLS	SS (SECTION, TO	DWNSHJIP, RANGE) WI	IERE AVAILABLE			
	LICENSE NO. WD1183	3	NAME OF LICENSED		Scarboroug	gh			NAME OF WELL DR	ILLING COMPANY arborough Drilling I	nc.		
	DRILLING STAR 11/20/202		DRILLING ENDED 11/20/2024	DEPTH OF COMPI	ETED WELL (I	FT) BO	RE HO	LE DEPTH (FT) 55	DEPTH WATER FIR	ST ENCOUNTERED (F	T)		
7	COMPLETED W	ELL IS:	✓ ARTESIAN	DRY HOLE	SHALL	OW (UNCONFI	NED)		STATIC WATER LEV	/EL IN COMPLETED V	VELL (FT)		
TIO	DRILLING FLUI	D:	✓ AIR	MUD	ADDITI	VES – SPECIFY							
RMA	DRILLING MET	HOD:	▼ ROTARY	HAMMER	CABLE	TOOL	ОТНЕ	R - SPECIFY:					
CASING INFORMATION	DEPTH (feet bgl)		BORE HOLE	The state of the s	MATERIAL AND/OR GRADE			ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT		
SING	FROM	10	DIAM (inches)	(include each	200000 00000	1	TYPE	(inches)	(inches)	(inches			
3 & C	0	55	5.00	Soil Boring									
2. DRILLING &													
DRIL						- 4/1							
7.													
											1		
	DEPTH (fee	et bgl)	BORE HOLE			SEAL MATER			AMOUNT	метн			
IVI	FROM	то	DIAM. (inches)	GRAVE		E-RANGE BY	INTE	ERVAL	(cubic feet)	PLACE	MENT		
TER						N/A							
ANNULAR MATERIAL													
ULA				V									
3. ANN													
المالة								WP-2	0 WELL RECORD	& LOG (Version 04	/30/19)		
	NO.	L USE			POD N	0		TRN		200 (10131011 04			
	ATION							WELL TAG I	D NO	PAC	E 1 OF 2		

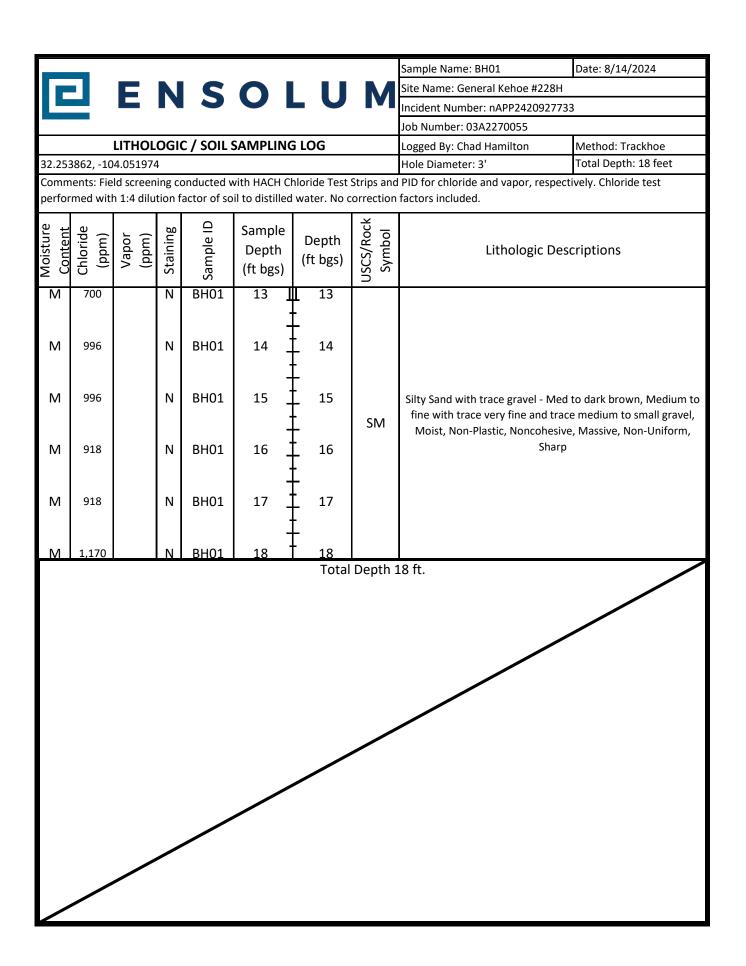
	DEPTH (ect bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -		ESTIMATED
	FROM	10	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	10	10	Sandy Clay w/ Gypsum, White to Red, very fine to medium grained	Y \N	
	10	15	5	Sandy Clay w/ Gypsum, Red to Medium Brown, very fine to medium graine	d Y /N	
	15	20	5	Inter-bedded Silty sand and Gypsum, Medium Brown to Red, fine to mediu	n Y /N	
	20	30	10	Fat Clay w/ Gypsum, Dark to Medium Brown, fine to coarse grained	Y /N	1000
	30	40	10	Inter-bedded Silty sand and Gypsum, Dark to Medium Brown, fine to media	m Y √N	All Inc.
	40	50	10	Inter-bedded Silty sand and Gypsum, Dark to Medium Brown, fine to mediu	m Y /N	
	50	51	1	Clay, Dark to Medium Brown, very fine to fine grained	Y /N	
	51	52	1	Gypsum, Clear to white, small to large crystals	Y /N	
1	52	55	3	Clay, Dark to Medium Brown, very fine to fine grained	VY N	
1				, and a second games	YN	
1					YN	
					YN	
1					YN	
					YN	-
					Y N	
1					YN	
1					Y N	
1						
1					Y N	+
1			1			
			+		Y N	
	METHOD	UCED TO	ECTD (ATE VIEW	D OF WATER-BEARING STRATA:	Y N	
1	/ <u></u>				FOTAL ESTIMATED WELL YIELD (gpm)	. 0.00
1	PUN	AP L	AIR LIFT	BAILER OTHER - SPECIFY:	week tiekb (gpiii)	: 0.00
SKVISION	WELL TE	STA	NFORMATION:	TTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCITIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE Temporary well material removed and soil boring backfilled using dribble property of the background	R THE TESTING PER	IOD.
IESI; KIG SUFERY				below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to	ground surface.	
1	PRINT NA	ME(S) OF	DRILL RIG SUP	ERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION OTHER	THAN LICENSE
ń	Scott Scar	borough				
6. SIGNATURE	RECORD	OF THE A	BOVE DESCRIB	THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOR ED WELL I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HA ED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETE SCAPE SCA	S BEEN INSTALLED ETION OF WELL DR	AND THAT THI
	R OSE INTE			Washington and the state of the	LL RECORD & LOG	



APPENDIX B

Lithologic Soil Sampling Logs

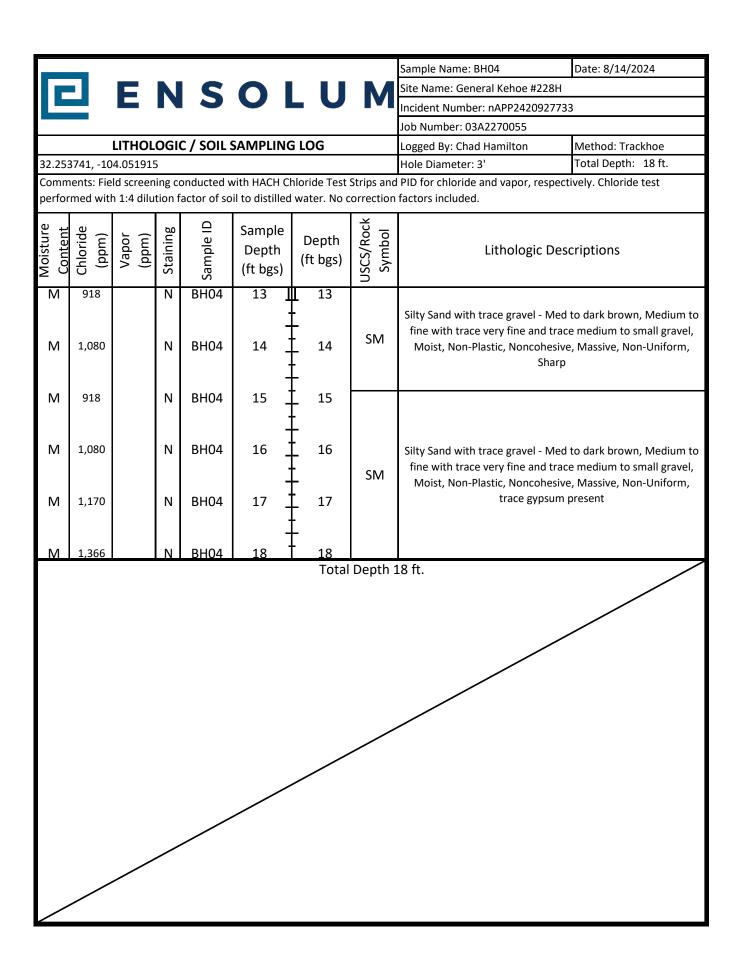
								Sample Name: BH01	Date: 8/14/2024
			N	6		LU	R.A	Site Name: General Kehoe #228H	
			N	3		LU	IVI	Incident Number: nAPP242092773	3
								Job Number: 03A2270055	
		LITHOL	OGI	C / SOIL S	SAMPLING	GLOG		Logged By: Chad Hamilton	Method: Hand Auger
32.253		4.051974						Hole Diameter: 3"	Total Depth: 18ft
				onducted v	vith HACH C	hloride Test S	Strips and	PID for chloride and vapor, respect	tively. Chloride test
perfor	med with	h 1:4 dilu	tion f	actor of so	il to distilled	l water. No c	orrection	factors included.	·
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
M			Υ	BH01	0	0			
M	3,348 2,520			вно1 вно1	1	1 2	SM	Silty Sand with trace gravel - Med fine with trace very fine and trac Moist, Non-Plastic, Noncohesive Sharp	e medium to small gravel,
D	2,520			BH01	3 _	3			
D	3,113			BH01	4 _	4			
D	>3,617			BH01	5 <u> </u>	5			
D				BH01	6	6			
М	840		N	BH01	7	7	SM	Silty Sand with trace gravel - Med fine with trace very fine and trac Moist, Non-Plastic, Noncohesive	e medium to small gravel,
М	767		N	BH01	8	8		trace gypsum	present
М	638		N	BH01	9	9			
М	576		N	BH01	10	10			
М	638		N	BH01	11	11			
М	576		N	BH01	12	12			



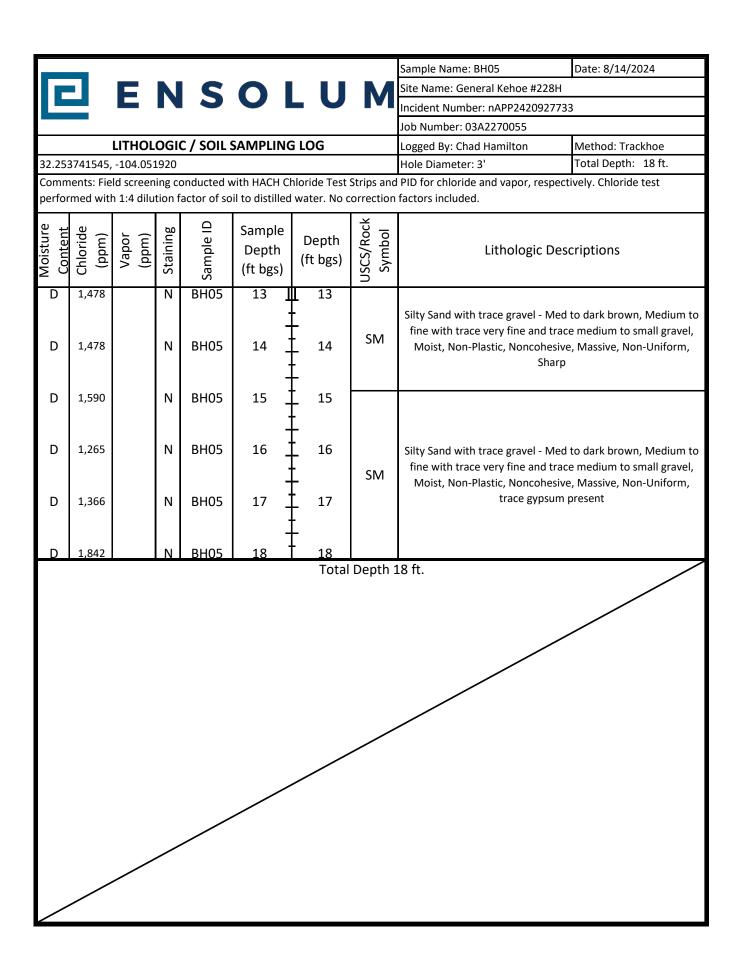
								Sample Name: BH02	Date: 8/14/2024
1							B. 4	Site Name: General Kehoe #228F	
1			N	3		L U	IVI	Incident Number: nAPP24209277	
								Job Number: 03A2270055	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe
32.253	3866, -10	4.051871						Hole Diameter: 3'	Total Depth: 10 ft.
			_					PID for chloride and vapor, respondence factors included.	ectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
D			Υ	BH02	0]	0			
М	3,617		Υ	BH02	0.5	0.5		Cilty Cand with trace group! A4	ad to dark brown Madium to
D	>3,617		N	BH02	1	1	SM	Silty Sand with trace gravel - Me fine with trace very fine and tr Moist, Non-Plastic, Noncohes Shar	ace medium to small gravel, ive, Massive, Non-Uniform,
D	2,520		N	BH02	2	2		5.16.	-
D	1,663		N	BH02	3	3			
D	1,545		N	BH02	4	4			
D	739		N	BH02	5	5			
D			N	BH02	5.5	5.5			
D	319		N	BH02	6	6	SM	Silty Sand with trace gravel - Me fine with trace very fine and tr Moist, Non-Plastic, Noncohes	ace medium to small gravel,
D	515		N	BH02	7	7		trace gypsur	n present
D	464		N	BH02	8	8			
D	414		N	BH02	9	9			
D	576		N	BH02	10	10			
	<u> </u>			2.702			Depth 1	.0 ft.	

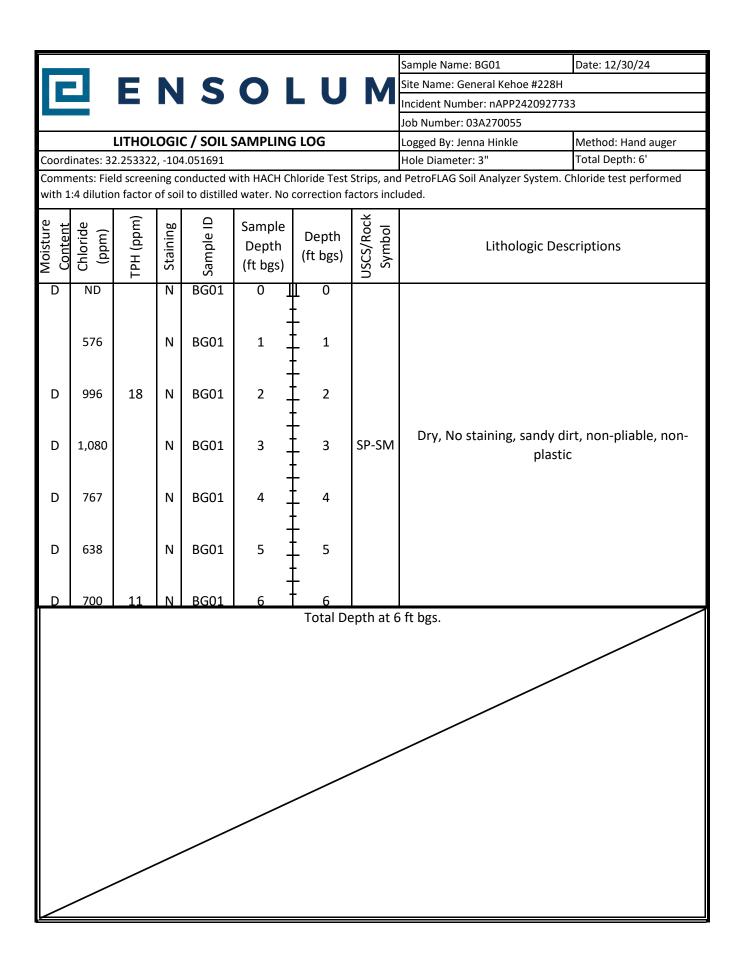
_									
4								Sample Name: BH03	Date: 8/14/2024
	-		N	S		LU	M	Site Name: General Kehoe #228	ВН
								Incident Number: nAPP242092	7733
								Job Number: 03A2270055	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Chad Hamilton	Method: Trackhoe
		4.051789						Hole Diameter: 3'	Total Depth: 9 ft.
			_					PID for chloride and vapor, resp factors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic C	Descriptions
D			Υ	BH03	0	0			
М	>3,617		Υ	BH03	0.5	0.5			Med to dark brown, Medium to
D	>3,617		N	BH03	1	1	SM	Moist, Non-Plastic, Noncohe	trace medium to small gravel, esive, Massive, Non-Uniform, arp
D	3,348		N	BH03	2	2			
D	2,195		N	вноз	3	3			
D	672		N	BH03	4	4			
D	840		N	BH03	5 <u> </u>	5	SM	fine with trace very fine and t	Med to dark brown, Medium to trace medium to small gravel, esive, Massive, Non-Uniform,
D	996		N	BH03	6	6			um present
D	996		N	BH03	7	7			
D	576		N	BH03	8 _	8			
D	515		N	BH03	9	9 Tota	l Depth	O ft	
						Tota	Берип		

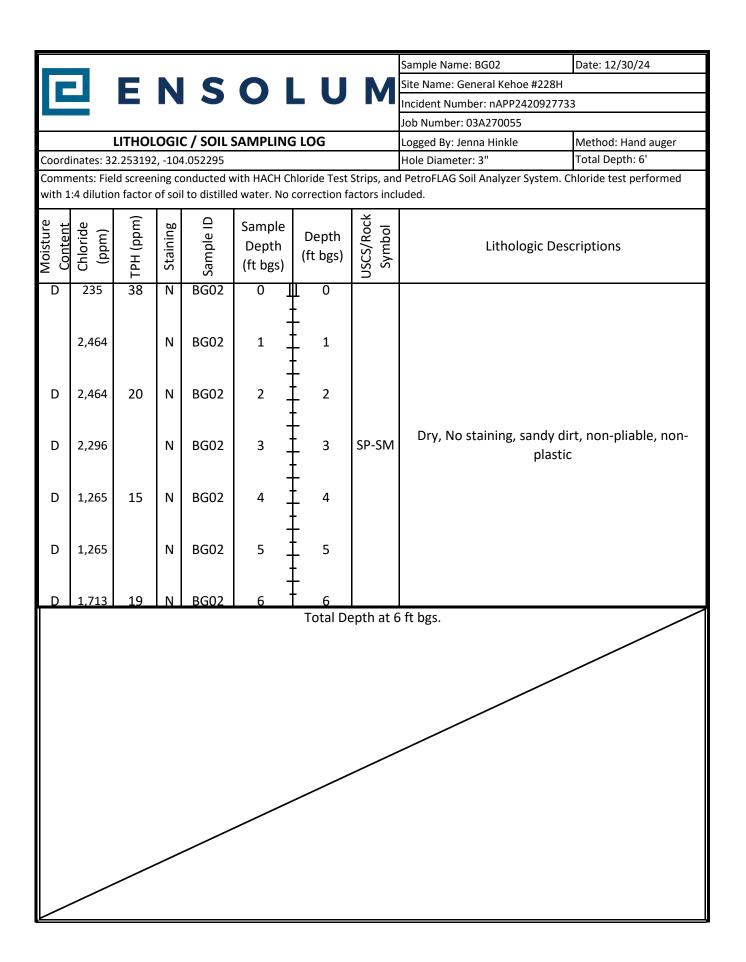
								Sample Name: BH04	Date: 8/14/2024
1	T						B .4	Site Name: General Kehoe #228	
1			N	3	U	LU	IVI	Incident Number: nAPP242092	
								Job Number: 03A2270055	
		LITHOL	OGIO	C / SOIL S	SAMPLING	GLOG		Logged By: Chad Hamilton	Method: Trackhoe
32.253	3741, -10							Hole Diameter: 3'	Total Depth: 18 ft.
			_					PID for chloride and vapor, resp factors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic C	Descriptions
D			Υ	BH04	0]	0			
М	3,348		Υ	BH04	0.5	0.5			led to dark brown, Medium to
D	>3,617			BH04	1 _	1	SM	fine with trace very fine and t Moist, Non-Plastic, Noncohe Sha	sive, Massive, Non-Uniform,
D	>3,617			BH04	2	2			
D	1,545			вн04	3	3			
D	2,357			BH04	4 _	4			
D	2,520			BH04	5 _	5 -			
D	1,254			BH04	6	6		Silty Sand with trace gravel - N	Med to dark brown, Medium to
М	1,080		N	BH04	7	7	SM	fine with trace very fine and t Moist, Non-Plastic, Noncohe	
М	1,366		N	BH04	8 _	8			
М	996		N	BH04	9	9			
М	918		N	BH04	10	10			
М	918		N	ВН04	11 _	11			
М	840		N	BH04	12	12			

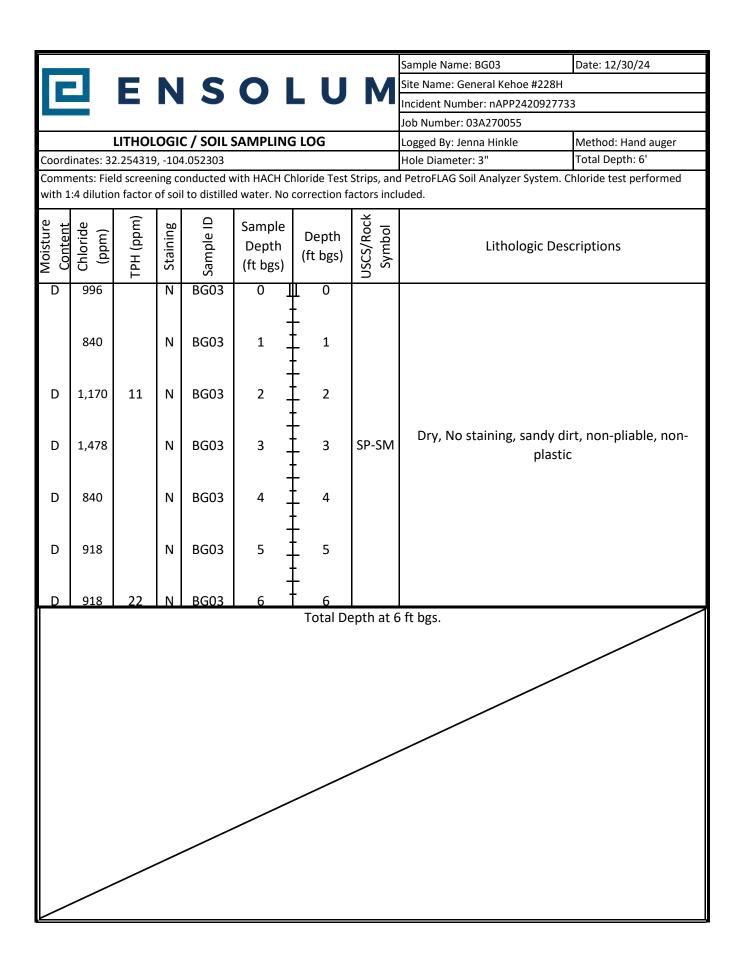


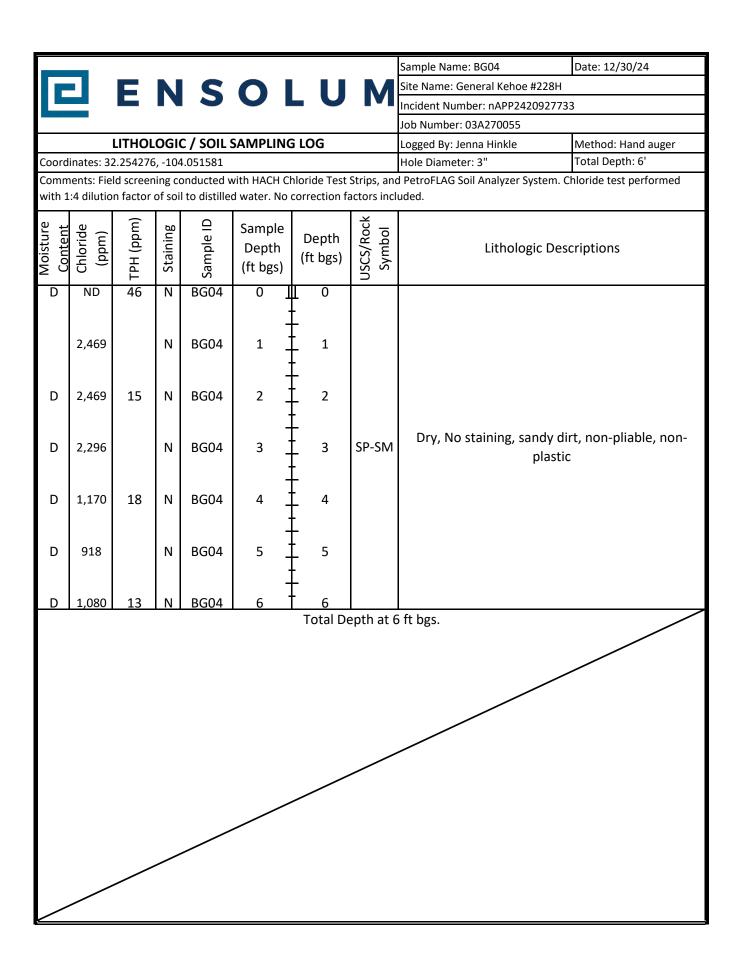
								Sample Name: BH05	Date: 8/14/2024	
1							B 4	Site Name: General Kehoe #228		
L ENSOLUM							Incident Number: nAPP2420927733			
							Job Number: 03A2270055			
							Logged By: Chad Hamilton	Method: Trackhoe		
							Hole Diameter: 3'	Total Depth: 18 ft.		
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D			Υ	BH05	0	0				
М	3,348		Υ	BH05	0.5	0.5		Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp		
D	3,328		N	BH05	1 _	1	SM			
D	2,049		N	BH05	2	2				
D	1,663		N	вн05	3	3		Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present		
D	840		N	BH05	4 _	4				
D	1,165		N	BH05	5 _	5				
D	1,165		N	BH05	6	6				
D	1,080		N	BH05	7	- - 7	SM			
D	1,170		N	BH05	8	- 8				
D	918		N	вн05	9 _	9				
D	1,366		N	BH05	10	10				
D	1,265		N	BH05	11	11				
D	1,265		N	BH05	12	12				













APPENDIX C

Photographic Log



Photographic Log Matador Production Company General Kehoe #228H nAPP2420927733





Date: 7/26/2024

Date: 7/26/2024 Photograph 1 Photograph 2

Description: Release Area

View: East

Description: Release Area

View: West





Date: 7/26/2024 Photograph 3 Photograph 4 Date: 7/26/2024

Description: Release Area Description: Release Area

View: North View: Southwest



Photographic Log Matador Production Company General Kehoe #228H nAPP2420927733





Photograph 5 Date: 8/14/2024

Description: Delineation sampling

View: South

Photograph 6 Date: 8/14/2024

Description: Delineation sampling

View: South





Photograph 7 Date: 8/14/2024

Description: Delineation sampling

View: South

Photograph 8 Date: 8/14/2024

Description: Delineation sampling

View: West



Photographic Log ador Production Company

Matador Production Company General Kehoe #228H nAPP2420927733





Photograph 9 Date: 11/19/2024

Description: Delineation sampling

View: Northeast

Photograph 10 Date: 11/19/2024

Description: Delineation sampling

View: East





Photograph 11 Date: 11/19/2024

Description: Delineation sampling

View: Northeast

Photograph 12 Date: 11/19/2024

Description: Delineation sampling

View: East



Photographic Log

Matador Production Company General Kehoe #228H nAPP2420927733





Date: 12/17/2024

Date: 12/19/2024

Photograph 13 Date: 11/20/2024

Description: DTW Boring View: Northwest Photograph 14

Description: Excavation

View: North





Photograph 15

Description: Excavation View: Southwest

Date: 12/17/2024

Photograph 16

Description: Excavation

View: West



Photographic Log

Matador Production Company General Kehoe #228H nAPP2420927733





Photograph 17

Description: Excavation View: Northeast

Date: 12/19/2024

Photograph 18

Description: Excavation

Date: 12/19/2024

Date: 12/30/2024

View: East





Photograph 19 Date: 12/30/2024

Description: Background Sampling

View: Southwest

Photograph 20

Description: Background Sampling

View: North



Photographic Log

Matador Production Company General Kehoe #228H nAPP2420927733





Photograph 21

Description: Delineation View: East

Date: 1/3/2025

Photograph 22

Description: Delineation View: South

Date: 1/6/2025





Photograph 23

Description: Delineation

View: East

Date: 1/6/2025

Photograph 24

Description: Delineation

View: North

Date: 1/6/2025



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E408147

Job Number: 23003-0002

Received: 8/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/22/24

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

Project Name: General Kehoe #228H

Workorder: E408147

Date Received: 8/16/2024 8:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2024 8:00:56AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BH01 - 0'	6
BH02 - 0'	7
BH03 - 0'	8
BH04 - 0'	9
BH05 - 0'	10
BH01 - 2'	11
BH02 - 2'	12
BH03 - 2'	13
BH04 - 2'	14
BH05 - 2'	15
BH01 - 4'	16
BH02 - 4'	17
BH03 - 4'	18
BH04 - 4'	19
BH05 - 4'	20
BH01 - 6'	21
BH02 - 5.5'	22
BH03 - 6'	23
BH04 - 6'	24
BH05 - 6'	25

Table of Contents (continued)

SS04 - 0'	26
QC Summary Data	27
QC - Volatile Organic Compounds by EPA 8260B	27
QC - Volatile Organics by EPA 8021B	28
QC - Nonhalogenated Organics by EPA 8015D - GRO	29
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	31
QC - Anions by EPA 300.0/9056A	33
Definitions and Notes	35
Chain of Custody etc.	36

Sample Summary

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo08/22/24 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E408147-01A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 0'	E408147-02A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 0'	E408147-03A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 0'	E408147-04A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 0'	E408147-05A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 2'	E408147-06A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 2'	E408147-07A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 2'	E408147-08A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 2'	E408147-09A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 2'	E408147-10A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 4'	E408147-11A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 4'	E408147-12A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 4'	E408147-13A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 4'	E408147-14A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 4'	E408147-15A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 6'	E408147-16A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 5.5'	E408147-17A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 6'	E408147-18A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 6'	E408147-19A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 6'	E408147-20A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
SS04 - 0'	E408147-21A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH01 - 0' E408147-01

		E408147-01					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24		
Ethylbenzene	0.523	0.0250	1	08/16/24	08/19/24		
Toluene	0.324	0.0250	1	08/16/24	08/19/24		
p-Xylene	1.65	0.0250	1	08/16/24	08/19/24		
o,m-Xylene	6.63	0.0500	1	08/16/24	08/19/24		
Total Xylenes	8.28	0.0250	1	08/16/24	08/19/24		
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	08/16/24	08/19/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	177	20.0	1	08/16/24	08/19/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		135 %	70-130	08/16/24	08/19/24	S3	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	1690	25.0	1	08/15/24	08/21/24		
Oil Range Organics (C28-C36)	224	50.0	1	08/15/24	08/21/24		
Surrogate: n-Nonane		127 %	50-200	08/15/24	08/21/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2433115	
Chloride	6020	200	10	08/16/24	08/16/24		

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH02 - 0' E408147-02

		E400147-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilution	Trepared	Maryzea	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	0.0388	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	1.13	0.0250	1	08/16/24	08/19/24	
Гoluene	2.38	0.0250	1	08/16/24	08/19/24	
o-Xylene	4.51	0.0250	1	08/16/24	08/19/24	
o,m-Xylene	16.8	0.0500	1	08/16/24	08/19/24	
Total Xylenes	21.3	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	276	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		128 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	18700	250	10	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	2750	500	10	08/15/24	08/21/24	
Surrogate: n-Nonane		337 %	50-200	08/15/24	08/21/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	11600	400	20	08/16/24	08/16/24	
Anions by EPA 300.0/9056A Chloride					08/16/24	Datell.



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH03 - 0' E408147-03

		E-1001-7-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2433119
Benzene	ND	0.125	5	08/16/24	08/21/24	
Ethylbenzene	3.92	0.125	5	08/16/24	08/21/24	
Toluene	9.13	0.125	5	08/16/24	08/21/24	
o-Xylene	12.4	0.125	5	08/16/24	08/21/24	
o,m-Xylene	52.7	0.250	5	08/16/24	08/21/24	
Total Xylenes	65.1	0.125	5	08/16/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	08/16/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	770	100	5	08/16/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		123 %	70-130	08/16/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	10200	250	10	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	1370	500	10	08/15/24	08/21/24	
Surrogate: n-Nonane		452 %	50-200	08/15/24	08/21/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2433115
Chloride	5030	200	10	08/16/24	08/16/24	

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH04 - 0' E408147-04

		E400147-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/21/24	
Toluene	ND	0.0250	1	08/16/24	08/21/24	
o-Xylene	ND	0.0250	1	08/16/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID		86.8 %	70-130	08/16/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	08/16/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	174	25.0	1	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	105	50.0	1	08/15/24	08/21/24	
Surrogate: n-Nonane		94.3 %	50-200	08/15/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2433115
Chloride	1770	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH05 - 0' E408147-05

		E408147-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	0.252	0.0250	1	08/16/24	08/19/24	
Toluene	0.265	0.0250	1	08/16/24	08/19/24	
o-Xylene	1.20	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	4.24	0.0500	1	08/16/24	08/19/24	
Total Xylenes	5.44	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	58.1	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	20100	500	20	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	3110	1000	20	08/15/24	08/21/24	
Surrogate: n-Nonane		189 %	50-200	08/15/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2433115
Chloride	5310	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH01 - 2' E408147-06

		E400147-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	1 11111) 200	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	0.0258	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	0.0258	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	31.7	25.0	1	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/21/24	
Surrogate: n-Nonane		93.8 %	50-200	08/15/24	08/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2433115
Chloride	2120	100	5	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH02 - 2' E408147-07

		E408147-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	rrepared	Analyzeu	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		88.9 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	149	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane		96.8 %	50-200	08/15/24	08/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	2280	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH03 - 2' E408147-08

	E-1001-7-00				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0500	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
	88.2 %	70-130	08/16/24	08/19/24	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
ND	20.0	1	08/16/24	08/19/24	
	95.5 %	70-130	08/16/24	08/19/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
ND	25.0	1	08/15/24	08/16/24	
ND	50.0	1	08/15/24	08/16/24	
	97.1 %	50-200	08/15/24	08/16/24	
mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
3040	200	10	08/16/24	08/16/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 88.2 % mg/kg Mg/kg mg/kg ND 20.0 95.5 % mg/kg MD 25.0 ND 50.0 97.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Analy ND 20.0 1 95.5 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 97.1 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0500 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/16/24 mg/kg mg/kg Analyst: NV ND 25.5 70-130 08/16/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/15/24 ND 50.0 1 08/15/24 ND 50.0 1 08/15/24 mg/kg mg/kg Analyst: JM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 08/16/24 08/19/24 ND 0.0250 1 08/16/24 08/19/24 ND 0.0250 1 08/16/24 08/19/24 ND 0.0500 1 08/16/24 08/19/24 ND 0.0250 1 08/16/24 08/19/24 ND 0.0250 1 08/16/24 08/19/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/16/24 08/19/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/15/24 08/16/24 ND 25.0 1 08/15/24 08/16/24 ND 50.0 1 08/15/24 08/16/24 ND 50.0 1 08/15/24 08/16/24 ND 50.0 1 08/15/24



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH04 - 2' E408147-09

	E400147-09				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: BA		Batch: 2433119
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
ND	0.0500	1	08/16/24	08/19/24	
ND	0.0250	1	08/16/24	08/19/24	
	87.6 %	70-130	08/16/24	08/19/24	
mg/kg	mg/kg	Analys	t: BA		Batch: 2433119
ND	20.0	1	08/16/24	08/19/24	
	96.1 %	70-130	08/16/24	08/19/24	
mg/kg	mg/kg	Analys	t: NV		Batch: 2433106
ND	25.0	1	08/15/24	08/17/24	
ND	50.0	1	08/15/24	08/17/24	
	94.2 %	50-200	08/15/24	08/17/24	
mg/kg	mg/kg	Analys	t: JM		Batch: 2433115
4970	200	10	08/16/24	08/16/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 87.6 % mg/kg mg/kg mg/kg ND 20.0 96.1 % mg/kg ND 25.0 ND 50.0 94.2 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 87.6 % 70-130 70-130 mg/kg mg/kg Analys ND 20.0 1 96.1 % 70-130 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 94.2 % 50-200 mg/kg Mg/kg Analys	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0500 1 08/16/24 ND 0.0250 1 08/16/24 ND 0.0250 1 08/16/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/16/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/16/24 ND 25.0 1 08/15/24 ND 50.0 1 08/15/24 ND 50.0 1 08/15/24 Mg/kg mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 08/16/24 08/19/24 ND 0.0500 1 08/16/24 08/19/24 ND 0.0250 1 08/16/24 08/19/24 mg/kg mg/kg Analyst: BA ND 20.0 1 08/16/24 08/19/24 mg/kg mg/kg Analyst: NV ND 25.0 1 08/15/24 08/17/24 ND 25.0 1 08/15/24 08/17/24 ND 50.0 1 08/15/24 08/17/24 ND 50.0 1 08/15/24 08/17/24 Mg/kg mg/kg Analyst: JM



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH05 - 2' E408147-10

		E400147-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Tillalyee	resuit	Emit	Diffution	Trepured	7 Hary Zec	110105
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		86.7 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	40.6	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		96.1 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	1960	200	10	08/16/24	08/16/24	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH01 - 4' E408147-11

		E400147-11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
-			Analy	st: BA		Batch: 2433119
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		87.3 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		97.5 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	2560	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH02 - 4' E408147-12

		E408147-12				
	D. I	Reporting		D 1		N. A
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		86.9 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	80.4	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		101 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	1020	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH03 - 4' E408147-13

		E400147-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Tilalye	Result	Limit	Dilution	Trepared	7 thaty zed	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		86.7 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		98.2 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	479	200	10	08/16/24	08/16/24	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH04 - 4' E408147-14

		£408147-14				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Ellilit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	33.1	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		96.9 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	2240	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH05 - 4' E408147-15

		E400147-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
- Timely to	resur	2	Dilution	Tropulou	111111, 200	71000
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		86.3 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		93.0 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	656	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH01 - 6' E408147-16

		12400147 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Foluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
o,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		87.0 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		92.4 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	4800	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH02 - 5.5' E408147-17

		£408147-17				
	D 1:	Reporting	Dil d			N.
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	0.0752	0.0500	1	08/16/24	08/19/24	
Total Xylenes	0.0752	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID		87.1 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	08/16/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	263	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	51.5	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		99.7 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	3780	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH03 - 6' E408147-18

		E40014/-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· many to	resur	2		•	111111/200	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
Surrogate: 4-Bromochlorobenzene-PID		86.9 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		94.3 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2433115
Chloride	746	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH04 - 6' E408147-19

		E400147-19				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Benzene	ND	0.0250	1	08/16/24	08/20/24	Butch. 2 (3311)
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
Surrogate: 4-Bromochlorobenzene-PID		87.6 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		92.2 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2433115
Chloride	1170	200	10	08/16/24	08/16/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

BH05 - 6' E408147-20

		E400147-20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Tilalye	Result	Liiiit	Dilution	Trepared	Maryzed	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: BA		
Benzene	ND	0.0250	1	08/16/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
Surrogate: 4-Bromochlorobenzene-PID		87.9 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2433119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	08/16/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2433106
Diesel Range Organics (C10-C28)	119	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane		93.0 %	50-200	08/15/24	08/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2433115
Chloride	1060	200	10	08/16/24	08/16/24	·



Matador Resources, LLC. Project Name: General Kehoe #228H 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Reported: 8/22/2024 1:43:00PM Dallas TX, 75240 Project Manager: Ashley Giovengo

SS04 - 0'

		E408147-21					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2433118
Benzene	ND	0.0250		1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250		1	08/16/24	08/16/24	
Toluene	ND	0.0250		1	08/16/24	08/16/24	
o-Xylene	ND	0.0250		1	08/16/24	08/16/24	
p,m-Xylene	0.0585	0.0500		1	08/16/24	08/16/24	
Total Xylenes	0.0585	0.0250		1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8		103 %	70-130		08/16/24	08/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2433118
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8		103 %	70-130		08/16/24	08/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2433109
Diesel Range Organics (C10-C28)	ND	25.0		1	08/15/24	08/16/24	_
Oil Range Organics (C28-C36)	ND	50.0		1	08/15/24	08/16/24	
Surrogate: n-Nonane		108 %	50-200		08/15/24	08/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2433116
Chloride	257	20.0		1	08/16/24	08/16/24	



QC Summary Data

Matador Resources, LLC.
Project Name: General Kehoe #228H

5400 LBJ Freeway, Suite 1500
Project Number: 23003-0002

Dallas TX, 75240
Project Manager: Ashley Giovengo 8/22/2024 1:43:00PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/2.	2/2024 1:43:00PI	
	V	Volatile Organic Compounds by EPA 8260B								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2433118-BLK1)		Prepared: 0							yzed: 08/16/24	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130				
Surrogate: Toluene-d8	0.526		0.500		105	70-130				
LCS (2433118-BS1)							Prepared: 0	8/16/24 Analy	yzed: 08/16/24	
Benzene	2.40	0.0250	2.50		96.1	70-130				
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130				
Toluene	2.44	0.0250	2.50		97.7	70-130				
o-Xylene	2.33	0.0250	2.50		93.2	70-130				
p,m-Xylene	4.66	0.0500	5.00		93.2	70-130				
Total Xylenes	6.99	0.0250	7.50		93.2	70-130				
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130				
Surrogate: Toluene-d8	0.520		0.500		104	70-130				
Matrix Spike (2433118-MS1)				Source:	E408148-	05	Prepared: 08/16/24 Analyzed: 08/16/24			
Benzene	2.29	0.0250	2.50	ND	91.6	48-131				
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135				
Toluene	2.26	0.0250	2.50	ND	90.4	48-130				
o-Xylene	2.24	0.0250	2.50	ND	89.4	43-135				
p,m-Xylene	4.47	0.0500	5.00	ND	89.4	43-135				
Total Xylenes	6.71	0.0250	7.50	ND	89.4	43-135				
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130				
Surrogate: Toluene-d8	0.503		0.500		101	70-130				
Matrix Spike Dup (2433118-MSD1)				Source:	E408148-	05	Prepared: 0	8/16/24 Analy	yzed: 08/16/24	
Benzene	2.35	0.0250	2.50	ND	93.9	48-131	2.54	23		
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135	5.18	27		
Toluene	2.44	0.0250	2.50	ND	97.5	48-130	7.54	24		
o-Xylene	2.31	0.0250	2.50	ND	92.3	43-135	3.19	27		
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135	2.83	27		
Total Xylenes	6.91	0.0250	7.50	ND	92.1	43-135	2.95	27		
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130				
	0.101		0.500		07.3	70 120				

0.500

0.500

97.2

105

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.486

0.523

QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 8/22/2024 1:43:00PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2433119-BLK1) Prepared: 08/16/24 Analyzed: 08/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.00 8.00 87.5 70-130 LCS (2433119-BS1) Prepared: 08/16/24 Analyzed: 08/19/24 5.10 102 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.90 0.0250 5.00 98.0 70-130 5.02 0.0250 5.00 100 70-130 Toluene 97.5 o-Xylene 4.88 0.0250 5.00 70-130 9.95 10.0 99.5 70-130 0.0500 p.m-Xvlene 98.8 70-130 14.8 15.0 Total Xylenes 0.0250 8.00 88.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.06 Matrix Spike (2433119-MS1) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24 5.38 0.0250 5.00 ND 54-133 Benzene ND 103 61-133 Ethylbenzene 5.16 0.0250 5.00 Toluene 5.30 0.0250 5.00 ND 106 61-130 ND 103 63-131 5.14 5.00 0.0250 o-Xylene p,m-Xylene 10.5 0.0500 10.0 ND 105 63-131 15.6 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.11 8.00 Matrix Spike Dup (2433119-MSD1) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24 5.10 0.0250 5.00 ND 102 54-133 5.36 61-133 4.90 0.0250 5.00 ND 98.1 5.13 20 Ethylbenzene 61-130 Toluene 5.03 0.0250 5.00 ND 101 5.15 20 4.89 5.00 ND 97.7 63-131 5.11 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

99.4

98.8

89.6

63-131

63-131

70-130

5.42

5.32

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.94

14.8

7.17

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

0.494

0.530

QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240		Project Manager:	As	shley Giovengo				8/2	22/2024 1:43:00PM
	Nonhalogenated Organics by EPA 8015D - GR								Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433118-BLK1)							Prepared: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
LCS (2433118-BS2)							Prepared: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			
Matrix Spike (2433118-MS2)				Source: E	408148-0	05	Prepared: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			
Matrix Spike Dup (2433118-MSD2)				Source: E	408148-0	05	Prepared: 0	8/16/24 Anal	yzed: 08/16/24
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	2.47	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			

0.500

0.500

70-130

70-130

98.8

106



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 23003-0002 Project Number: 8/22/2024 1:43:00PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go			8/2	2/2024 1:43:00PM
	Nor	halogenated		Analyst: BA					
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2433119-BLK1)							Prepared: 0	8/16/24 Anal	yzed: 08/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			
LCS (2433119-BS2)							Prepared: 0	8/16/24 Anal	yzed: 08/19/24
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			
Matrix Spike (2433119-MS2)				Source:	E408147-	07	Prepared: 0	8/16/24 Anal	yzed: 08/19/24
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			
Matrix Spike Dup (2433119-MSD2)				Source:	E408147-	07	Prepared: 0	8/16/24 Anal	yzed: 08/19/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	2.42	20	

8.00

98.1

70-130

7.85

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/22/2024 1:43:00PM

Danas 1A, 73240		Project Manager	1. As	mey Gloveng	30			0/2	2/2024 1.43.00FW
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433106-BLK1)							Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.1		50.0		96.1	50-200			
LCS (2433106-BS1)							Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	190	25.0	250		76.2	38-132			
urrogate: n-Nonane	49.7		50.0		99.5	50-200			
Matrix Spike (2433106-MS1)				Source:	E408147-	03	Prepared: 0	8/15/24 Anal	yzed: 08/21/24
Diesel Range Organics (C10-C28)	10200	250	250	10200	8.76	38-132			M4
urrogate: n-Nonane	222		50.0		445	50-200			S5
Matrix Spike Dup (2433106-MSD1)				Source:	E408147-	03	Prepared: 0	8/15/24 Anal	yzed: 08/21/24
Diesel Range Organics (C10-C28)	11200	250	250	10200	397	38-132	9.06	20	M4
urrogate: n-Nonane	249		50.0		499	50-200			S5



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	General Kehoe #228H 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

Danas 1A, 73240		1 Toject Ivianage	. 2 1 5	micy Gloveng	50			0/2	2,2021 1.13.0011
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433109-BLK1)							Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			
LCS (2433109-BS1)							Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	216	25.0	250		86.5	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			
Matrix Spike (2433109-MS1)				Source:	E408146-0	02	Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			
Matrix Spike Dup (2433109-MSD1)				Source:	E408146-	02	Prepared: 0	8/15/24 Anal	yzed: 08/16/24
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.4	38-132	1.49	20	
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	General Kehoe #228H 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

Danas 171, 75240		1 Toject Wianage		sincy Gloveng	,				
		Anions	by EPA 3	00.0/9056	A				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
<u>I</u>	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433115-BLK1)							Prepared: 0	8/16/24 Ana	lyzed: 08/16/24
Chloride	ND	20.0							
LCS (2433115-BS1)							Prepared: 0	8/16/24 Ana	lyzed: 08/16/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433115-MS1)				Source:	E408147-	03	Prepared: 0	8/16/24 Ana	lyzed: 08/16/24
Chloride	5450	200	250	5030	168	80-120			M4
Matrix Spike Dup (2433115-MSD1)				Source:	E408147-	03	Prepared: 0	8/16/24 Ana	lyzed: 08/16/24

250

5030

160

80-120

0.363

200



Matrix Spike Dup (2433116-MSD1)

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	:	General Kehoe 23003-0002 Ashley Gioveng				8	Reported: 8/22/2024 1:43:00PM
		Anions	by EPA	300.0/9056A	4				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433116-BLK1)							Prepared: 0	8/16/24 An	nalyzed: 08/16/24
Chloride	ND	20.0							
LCS (2433116-BS1)							Prepared: 0	8/16/24 An	nalyzed: 08/16/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433116-MS1)				Source:	E408146-	04	Prepared: 0	8/16/24 An	nalyzed: 08/16/24
Chloride	351	20.0	250	97.5	102	80-120			

250

20.0

Source: E408146-04

95.8

80-120

4.11

97.5

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.



Prepared: 08/16/24 Analyzed: 08/16/24

20

Definitions and Notes

Γ	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/22/24 13:43

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.
S3	Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
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.

Did not react with the addition of acid or base.

DNR

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



						Chain	of Cus	tody															F	Page[
	Clie	nt Inform	nation			Invoice Information	n				La	b Us	e On	ly				TA	AT.			S	tate	
Client: N	Natador Proc	luction C	ompany		Co	mpany: Ensolum LLC		1	ab V	VO#			Job	Num	ber		1D	2D	3D S	td	NI	и со	UT	TX
	General Keho					dress: 3122 National Parks I	Hwy		E 4					003		02			X		X			
	/lanager: As		-			y, State, Zip: Carlsbad NM, 8																		
the state of the state of the	3122 Natio				Pho	one: 575-988-0055			Γ				Ana	lysis	and	Met	hod					EPA Pro	grar	m
City, Stat	e, Zip: Carls	bad NM,	88220		En	nail: agiovengo@ensolum.	com														SDWA	CW	Α	RCRA
Phone: !	575-988-005	5			Mis	cellaneous:																		
Email: a	giovengo@e	nsolum.c	com							15	15									C	Complia	ance	Υ	or N
										y 80	y 80.	11	0	0.0	5	×	als			F	PWSID	#		
				Samı	ole Informati	on				RO b	RO b	/ 802	826	e 30	N.	- 50	Met							
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Numl	b ber	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Rema	irks	
9:01	8/14/2024	Soil	1			BH01 - 0'		1							X									
9:13	8/14/2024	Soil	1			BH02 - 0'		2							X									
9:32	8/14/2024	Soil	1			BH03 - 0'		3							х									
9:39	8/14/2024	Soil	1			BH04 - 0'		4	*						x									
9:51	8/14/2024	Soil	1			BH05 - 0'		5							х									
9:06	8/14/2024	Soil	1			BH01 - 2'		6							х									
9:18	8/14/2024	Soil	1			BH02 - 2'		7							х									
9:36	8/14/2024	Soil	1			BH03 - 2'		8							х									
9:47	8/14/2024	Soil	1			BH04 - 2'		a							х									
10:01	8/14/2024	Soil	1			BH05 - 2'		10							х									
Addition	al Instructio	nc. Dla	ase CC: cl	urton@e	nsolum com	, agiovengo@ensolum.com,	iestrella			con	n ho	leal@	Dens	olun	cor	n ch	amil	ton@	ensol	um.	com.			
	ns@ensolum		ase ee. c.	our conce c	nsolum.com,	, agiovengo@ensoiann.com,	icoti ciii	ae cinse			.,					.,								
			d authenticit	of this samp	le. I am aware tha	at tampering with or intentionally misla	beling the s	sample loc	ation,	date	or tim	e of co	llectio	n is co	nsider	ed frau	id and	may b	e ground	s for l	egal acti	on.		
Sampled by:	Chad Hamilto	n and Bowai	n Simmons																					
Relinquish	ed by: (Signatu	re)	Date	115/24	Time 10:15	Received by: (Signature)	les Dat	te 3-15-24	1	Time 10	15				sampl		ceived	A COLOR				ved on ice th ve 0 but less		
Relinquished by (Signature) Date 7-1524 Time 7-1524 22				Time Received by: (Signature)				Time	100)				eived		ice:	Lab	ab Use Only						
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Relinquished by: (Signature) Date Time Received by: (Signature)				Dat			Time					Δνα	Ten	nn °(- L				<u>, , , , , , , , , , , , , , , , , , , </u>					
Sample Matrix: 5 - Soil. Sd - Solid. Sg - Sludge. A - Aqueous. O - Other							Co	ntainer	Type	2: g -	glass	, p -	ooly/	plasti	c, ag	- am	ber g	lass, v	v - VOA	T				

Released to Imaging: 3/5/2025 1:32:42 PM

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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						Chain o	f Cus	tody															Page	2
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	e, Zip: Carlsl				En	nail: agiovengo@ensolum.co	om						7-							SDV	NA	CWA	RC	RA
	575-988-005					cellaneous:		1																
Email: a	giovengo@ei	nsolum.c	com							15	15									Com	pliance	Y	or	N
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12:21	8/14/2024	Soil	1			BH01 - 4'		11							X									
12:16	8/14/2024	Soil	1			BH02 - 4'		12							X									
12:08	8/14/2024	Soil	1			BH03 - 4'		13	3						X									
12:02	8/14/2024	Soil	1			BH04 - 4'		14	1						х									
11:58	8/14/2024	Soil	1			BH05 - 4'	10	15	,						х									
14:12	8/14/2024	Soil	1			BH01 - 6'		16							х									
14:05	8/14/2024	Soil	1			BH02 - 5.5'		(7							х									
13:40	8/14/2024	Soil	1			BH03 - 6'		18							х									
13:47	8/14/2024	Soil	1			BH04 - 6'		19							х									
13:28	8/14/2024	Soil	1			BH05 - 6'		90							х									
Addition	al Instructio	ns: Ple	ase CC: cb	urton@e	nsolum.com	, agiovengo@ensolum.com, i	estrell	a@ens	olun	n.con	n, bd	eal@	ens	olum	i.com	n, ch	amilt	on@e	nsolu	ım.con	n,			
bsimmo	ns@ensolum	.com																						
I, (field sam	pler), attest to the	validity and	d authenticity	of this sampl	e. I am aware tha	at tampering with or intentionally mislabe	ling the	sample lo	cation	, date d	or time	of co	llectio	n is cor	sidere	d frau	d and m	ay be g	rounds	for legal :	action.			
Sampled by	Chad Hamilton	and Bowa				4									1000									
Relinquish	ed by: (Signatur	re)	Date	115/24	Time 0:15	Received by: (Signature)	8 E	te 5-15-2	4	Time	15					d or re	ceived pa		ice at an	must be r avg temp	above 0 b			
Relinguish	ed by: (Signatur	e) onzal	es St		J240	Received by: (Signature)	Da	te -16-2		Time	00				Rece	ived	l on ic	e:	Lab	Use Or N	nly			
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Relinquish	ed by: (Signatur	re)	Date		Time	Received by: (Signature)	Da			Time					AVG	Tem	np °C	4						
Sample Ma	rix: S - Soil, Sd - So	olid, Sg - Slu	idge, A - Aque	ous, 0 - Othe	r		Co	ontainer	Тур	e: g -	glass,	p - p	oly/	AVG Temp °C										

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Sampled	Date Sampled	Matrix	Containers			Sample ID	Fe	Lal Num	ber	DRO	GRO	BTE)	9	Chlo	BGD	TCEC	RCR.					
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			ase cc. c	burton@e	ensolum.com	, agiovengo@ensoium.com	lestrena	iwens.	Oluli	ii.coii	i, bu	eaiw	CHS	olull		, cite	aiiiiito	ile ens	oluli	i.com,		
	ns@ensolum pler), attest to the		authenticit	y of this samp	le. I am aware th	at tampering with or intentionally misla	beling the s	ample lo	cation	, date o	r time	of coll	ection	is con	sidered	fraud	d and ma	y be grou	ınds foi	legal action.		
	Chad Hamilto																					
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envirotech

envirotech Inc.

Printed: 8/16/2024 8:53:14AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/16/24 (08:00	Work Order ID:	E408147
Phone:	(972) 371-5200	Date Logged In:	08/15/24 1	15:59	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/22/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>ırier</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Commen</u>	nts/Resolution
Sample T	urn Around Time (TAT)			Г		
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		· • • · · · · · <u> </u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · ·	ners conceica.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	ormation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		No			
Sample P	<u>reservation</u>					
21. Does	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
-	imples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: N	JA	
				Subcontract Eur. 1	17.1	
Chent In	<u>istruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E411205

Job Number: 23003-0002

Received: 11/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/21/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/21/24

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

Project Name: General Kehoe #228H

Workorder: E411205

Date Received: 11/20/2024 6:15:12AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/20/2024 6:15:12AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 @ 0'	5
SS02 @ 0'	6
SS03 @ 0'	7
SS05 @ 0'	8
SS06 @ 0'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/24 12:38

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01 @ 0'	E411205-01A Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS02 @ 0'	E411205-02A Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS03 @ 0'	E411205-03A Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS05 @ 0'	E411205-04A Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS06 @ 0'	E411205-05A Soil	11/19/24	11/20/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

SS01 @ 0' E411205-01

E411205-01						
	D 1	Reporting	D :1 ::	ъ.		
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2447051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane		99.7 %	50-200	11/20/24	11/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2447057
Chloride	ND	20.0	1	11/20/24	11/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

SS02 @ 0'

E411205-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2447050
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2447050
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KH		Batch: 2447051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane		93.9 %	50-200	11/20/24	11/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2447057
Chloride	125	20.0	1	11/20/24	11/20/24	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

SS03 @ 0' E411205-03

		E-111203-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2447050
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2447050
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KH		Batch: 2447051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane		98.0 %	50-200	11/20/24	11/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2447057
Chloride	123	100	5	11/20/24	11/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

SS05 @ 0' E411205-04

		E411205-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2447051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane		104 %	50-200	11/20/24	11/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2447057
Chloride	213	100	5	11/20/24	11/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

SS06 @ 0' E411205-05

		E411205-05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2447050
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	11/20/24	11/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2447051
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane		106 %	50-200	11/20/24	11/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2447057
Chloride	ND	100	5	11/20/24	11/20/24	·



Surrogate: 4-Bromochlorobenzene-PID

7.78

QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240		Project Number: Project Manager:		shley Giovengo)			1	1/21/2024 12:38:06PM
		Volatile O	rganics b	y EPA 8021	В				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447050-BLK1)							Prepared: 1	1/20/24 Aı	nalyzed: 11/21/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			
LCS (2447050-BS1)							Prepared: 1	1/20/24 Aı	nalyzed: 11/21/24
Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.16	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
o,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			
LCS Dup (2447050-BSD1)							Prepared: 1	1/20/24 Aı	nalyzed: 11/21/24
Benzene	5.38	0.0250	5.00		108	70-130	2.61	20	
Ethylbenzene	5.18	0.0250	5.00		104	70-130	2.84	20	
Toluene	5.29	0.0250	5.00		106	70-130	2.56	20	
o-Xylene	5.19	0.0250	5.00		104	70-130	2.73	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	2.99	20	
Total Xylenes	15.7	0.0250	15.0		105	70-130	2.90	20	

97.2

70-130



QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo11/21/2024 12:38:06PM

Nonhalogenated	Organics b	v EPA	8015D -	GRO

Analyst: BA

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

Blank (2447050-BLK1)						Prepared: 1	1/20/24	Analyzed: 11/21/24
Gasoline Range Organics (C6-C10)	ND	20.0						-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00	90.6	70-130			
LCS (2447050-BS2)						Prepared: 1	1/20/24	Analyzed: 11/21/24
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0	82.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00	92.1	70-130			
LCS Dup (2447050-BSD2)						Prepared: 1	1/20/24	Analyzed: 11/21/24
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	80.6	70-130	2.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00	91.7	70-130			



QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 11/21/2024 12:38:06PM Dallas TX, 75240 Project Manager: Ashley Giovengo

	Nonhal	ogenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447051-BLK1)							Prepared: 1	1/20/24 Ana	lyzed: 11/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			
LCS (2447051-BS1)							Prepared: 1	1/20/24 Ana	lyzed: 11/20/24
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
LCS Dup (2447051-BSD1)							Prepared: 1	1/20/24 Ana	lyzed: 11/20/24
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132	0.917	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2447057-BS1)

LCS Dup (2447057-BSD1)

Chloride

Chloride

Prepared: 11/20/24 Analyzed: 11/20/24

Prepared: 11/20/24 Analyzed: 11/20/24

90-110

90-110

0.279

104

103

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		General Kehoe #228H 23003-0002 Ashley Giovengo					Reported:
Dallas TX, 75240		Project Manager	: 1						11/21/2024 12:38:06PM
		Anions	by EPA	300.0/9056	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447057-BLK1)							Prepared: 1	1/20/24 <i>A</i>	Analyzed: 11/20/24
Chloride	ND	20.0							

250

250

20.0

20.0

259

258

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

l	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/24 12:38

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.



							·														1.4			
	Clier	nt Inform	ation				Invoice Information	1				La	ıb Us		•					AT	علا		Stat	
Client: M	ATADOR PRO	ODUCTIO	N COMP	ANY		Com	pany: Ensolum LLC			Lab	WQ#	١	_	Job	Num 03	ber		1D	2D	3D S1	d My	NM	CO UT	TX
Project: 0	General Keho	<u>e 228H</u>				Add	ress: 3122 National Parks I	lwy:		E4	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	<u> 205</u>	5	23	<u>133</u>	W		X		*	<u>-</u>]c#	X		
	Manager: Asl					City,	State, Zip: Carlsbad NM, 8	8220																
Address:	3122 Nation	nal Parks	Hwy			<u>Phor</u>	ne: 575-988-0055			_				Ana	lysis	and	Met	hod				EF	A Progr	
City, Stat	e, Zip: Carlsl	bad NM,	88220			Ema	iil: agiovengo@ensolum.o	om		_										1 1	SE)WA	CWA	RCRA
Phone: 5	575-988-005 <u>5</u>	5				Misce	ellaneous:					ŀ									<u> </u>			
Email: a	giovengo@ei	nsolum.c	om								2	12	l	ŀ				İ		1 1		nplian	ce Y	or N
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				Sam	ple Inforr	mation	<u> </u>				Įį	<u>۾</u>	8	826	8	Ž	Š	Š	1	1 1				
Time Sampled	Date Sampled	Matrix	No. of Containers			s	Sample ID	Field	#	Lab ımber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	<u> </u>				Remarks	·
0856	11-19-24	5	1	55	016	2	0'		1							X								
0259	11-19-24	5	1	550	36	2	0'		2	2						X								
0957	11-19-24	5	1	550	30	20	, 1		13	3_						X								
	11-19-24	5	1	350.	50	0	· · · · · · · · · · · · · · · · · · ·		4	4_						K								
0910	11-19-24	5	1	5506	6	0			1	<u>5</u> _						X								
	ial Instructions@ensolum					com, a	agiovengo@ensolum.com,	chamil	on@	ensol	um.c	om,	iestr	ella(ens	olun	n.cor	n, bo	leal(@ensolu	ım.co	m,		
	pler), attest to the	validity and				ere that t	tampering with or intentionally mislal	peling the	sample	location	n, date	or tim	e of co	ollectio	n is co	nsider	ed fra	ud and	l may l	be grounds	for lega	laction	,	
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envirotech Inc.

Printed: 11/20/2024 7:10:47AM

Envirotech Analytical Laboratory

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:	11/20/24	06:15	Work Order ID:	E411205
Phone:	(972) 371-5200	Date Logged In:	11/19/24	15:20	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	11/20/24	17:00 (0 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the same of the	in the field	Yes			
	i.e, 15 minute hold time, are not included in this disucss	•			Comment	s/Resolution
Sample T	<u> Furn Around Time (TAT)</u>					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	, were custody/security seals intact?					
-	· · · · · · · · · · · · · · · · · · ·	1.1. (0.100)	NA			
12. was tr	ne sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a		Yes			
	minutes of sampling					
13. If no	visible ice, record the temperature. Actual sample	e temperature: 4°0	<u>C</u>			
	Container_					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers	s?	Yes			
19. Is the	appropriate volume/weight or number of sample contain	iners collected?	Yes			
Field La	<u>bel</u>					
	field sample labels filled out with the minimum inf	ormation:				
	ample ID?		Yes			
	Oate/Time Collected? Collectors name?		Yes			
	Preservation		No			
	the COC or field labels indicate the samples were p	recerved?	No			
	ample(s) correctly preserved?	neserveu.	NA			
	filteration required and/or requested for dissolved	metals?	No			
	-	inctais:	NU			
	ase Sample Matrix	0				
	the sample have more than one phase, i.e., multipha		No			
27. If yes	s, does the COC specify which phase(s) is to be anal	lyzed?	NA			
	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laborate	ory?	No			
29. Was a	a subcontract laboratory specified by the client and	if so who?	NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E501024

Job Number: 23003-0002

Received: 1/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/8/25

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: 1/8/25

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

Project Name: General Kehoe #228H

Workorder: E501024

Date Received: 1/7/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2025 7:15:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS03-5'	5
BH01-8'	6
BH01-10'	7
BH01-12'	8
BH01-14'	9
BH01-16'	10
BH01-18'	11
BH05-7'	12
BH05-9'	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:	
5400 LBJ Freeway, Suite 1500	Project Number:	Project Number: 23003-0002		
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/25 11:11	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03-5'	E501024-01A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-8'	E501024-02A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-10'	E501024-03A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-12'	E501024-04A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-14'	E501024-05A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-16'	E501024-06A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-18'	E501024-07A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH05-7'	E501024-08A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH05-9'	E501024-09A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

FS03-5' E501024-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	_
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/07/25	
Surrogate: n-Nonane		112 %	50-200	01/07/25	01/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2502026
Chloride	657	200	10	01/07/25	01/07/25	

Chloride

Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-8'

E501024-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/07/25	
Surrogate: n-Nonane		111 %	50-200	01/07/25	01/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2502026

200

686

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01/07/25

01/07/25



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-10' E501024-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		114 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: JM		Batch: 2502026
Chloride	500	200	10	01/07/25	01/07/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-12'

		E501024-04					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25		
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25		
Toluene	ND	0.0250	1	01/07/25	01/07/25		
o-Xylene	ND	0.0250	1	01/07/25	01/07/25		
o,m-Xylene	ND	0.0500	1	01/07/25	01/07/25		
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25		
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/07/25	01/07/25		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	01/07/25	01/07/25		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25		
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25		
Surrogate: n-Nonane		111 %	50-200	01/07/25	01/08/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: JM		Batch: 2502026	
Chloride	654	200	10	01/07/25	01/07/25		



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-14' E501024-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		108 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2502026
Chloride	712	200	10	01/07/25	01/07/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-16' E501024-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		114 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2502026
Chloride	773	200	10	01/07/25	01/07/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH01-18' E501024-07

		1201024 07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
o,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		118 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2502026
Chloride	1220	100	5	01/07/25	01/07/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH05-7'

E501024-08

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		120 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2502026
Chloride	780	100	5	01/07/25	01/07/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

BH05-9'

E501024-09

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	70-130	01/07/25	01/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane		112 %	50-200	01/07/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2502026
Chloride	480	100	5	01/07/25	01/07/25	



QC Summary Data

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Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM
	Volatile Orga	nics by EPA 8021B	Analyst: SL

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			1/8	/2025 11:11:33AN
		Volatile (Organics b	y EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2502018-BLK1)							Prepared: 0	1/07/25 Anal	yzed: 01/07/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			
LCS (2502018-BS1)							Prepared: 0	1/07/25 Anal	yzed: 01/07/25
Benzene	5.64	0.0250	5.00		113	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.56	0.0250	5.00		111	70-130			
o-Xylene	5.41	0.0250	5.00		108	70-130			
p,m-Xylene	11.1 16.5	0.0500	10.0		111	70-130			
Total Xylenes		0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			
Matrix Spike (2502018-MS1)				Source:	E501021-	07	Prepared: 0	1/07/25 Anal	yzed: 01/07/25
Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133			
Toluene	5.08	0.0250	5.00	ND	102	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			
Matrix Spike Dup (2502018-MSD1)				Source:	E501021-	07	Prepared: 0	1/07/25 Anal	yzed: 01/07/25
Benzene	5.32	0.0250	5.00	ND	106	54-133	2.89	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	2.96	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	2.97	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	2.92	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.94	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	2.93	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			



Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/8/2025 11:11:33AM

		Analyst: SL								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2502018-BLK1)							Prepared: 0	1/07/25 Anal	yzed: 01/07/25	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130				
LCS (2502018-BS2)							Prepared: 0	1/07/25 Anal	yzed: 01/07/25	
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.3	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130				
Matrix Spike (2502018-MS2)				Source:	E501021-	07	Prepared: 01/07/25 Analyzed: 01			
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.7	70-130				
			8.00		90.1	70-130				

50.0

8.00

ND

99.8

89.2

70-130

70-130

6.28

20

20.0

7.13

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/8/2025 11:11:33AM

Dullus 171, 732 10		Troject Manage		iney Groveng	50				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2502022-BLK1)							Prepared: 0	1/07/25 Ana	lyzed: 01/07/25
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 (2502022-BS1)							Prepared: 0	1/07/25 Ana	lyzed: 01/07/25
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			
Matrix Spike (2502022-MS1)				Source:	E501021-	04	Prepared: 0	1/07/25 Ana	lyzed: 01/07/25
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			
Matrix Spike Dup (2502022-MSD1)				Source:	E501021-	04	Prepared: 0	1/07/25 Ana	lyzed: 01/07/25
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.738	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2502026-MSD1)

Chloride

277

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:			Reported:				
Dallas TX, 75240	Dallas TX, 75240 Project Manager: Ashley Giovengo								1/8/2025 11:11:33AM
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2502026-BLK1)							Prepared: 0	1/07/25 Ar	nalyzed: 01/07/25
Chloride	ND	20.0							
LCS (2502026-BS1)							Prepared: 0	1/07/25 Ar	nalyzed: 01/07/25
Chloride 2		253 20.0			101	90-110			
Matrix Spike (2502026-MS1)			Source: E501022-0			Prepared: 0	1/07/25 Ar	nalyzed: 01/07/25	
Chloride	281	100	250	ND	112	80-120			

250

100

Source: E501022-02

111

80-120

1.44

ND

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.



Prepared: 01/07/25 Analyzed: 01/07/25

20

Definitions and Notes

l	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/25 11:11

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

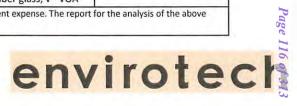
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody	Page	of	
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	Clie	nt Inform	nation		T)		Invoice Informa	tion				La	b Us	e On	ly				TA	T	State	
	Natador Prod				11.1-		pany: Ensolum LLC			Lab \	WO#	001	1	Joh	Num	ber	0	1D 2D 3D S		3D Std	NM CO UT TX	
	Genera			# 228	T	100	ess: 3122 National Par	A Company of the Comp		£5	0/1	2024	1	10		·M	1			X		
	Manager: As 3122 Natio				-	City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055			ſ	-			Analysis and Met				thod			EPA Program		
	e, Zip: Carls		W				il: agiovengo@ensolu	m.com						7 1110	,,,,,,						SDWA CWA RCRA	
21 - 22	575-988-005					-	llaneous:								111							
Email: agiovengo@ensolum.com										M	8015	15									Compliance Y or N	
											by 80	by 80	121	90	0.00	Σ	¥	tals			PWSID#	
				Samp	ole Infor	mation		Ь	4 15	h	ORO	ORO E	by 80	y 82	de 3(Z - D	- 5001	8 Me			Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers			Si	ample ID	Field	Lal Num	ber	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Nemarks	
937	1/3/25	Soil	1			FS	03-51									X						
953	1	1	1				401-81		2							X						
1030							1 10'		3							X						
1102							12)		4							X						
1138							141		5)						X		-				
1220							16'		6)						X						
1254							181		7							Y						
1412						Þ	H05-7)		8							~						
1116		1	-			17	a.		a							^						
1433	V	1	V				1 91		7							X						
	1		2 = 5	12.1																		
Addition	nal Instruction	ns: Ple	ase CC: cl	ourton@e	nsolum.	com, a	giovengo@ensolum.co	m, chamilt	on@er	rsolu	ım.c	om, i	estre	ella@	ens	olum	ı.con	1				
I, (field sam	pler), attest to th	e validity and	d authenticity	of this sampl	e. I am aw	are that ta	ampering with or intentionally m	nislabeling the	sample loc	cation,	, date	or time	of co	llectio	n is co	nsidere	ed frau	d and i	may be	grounds fo	r legal action.	
Sampled by		2																				
Relinquish	ed by: (Signatu	re)	Date	4/25	Time 5-1-		teceived by: (Signature)	rice Da	te -6-	25	Time	1814	1								ust be received on ice the day they are g temp above 0 but less than 6 °C on	
Relinquish	ed by Signato	re)	e Date	4:25	Time 154		Received by: (Signature)	Da Da	te	72	Time	(2	10			Rec	eiver	l on i	ce.	lab U	se Only	
Relinquished by (Signature)							leceved by/Signature	an 7	1.7.7.	5	Jime	5	10			T1	CIVCO	. 011 1		T2		
Relinquish	Relinquished by: (Signature) Date Tin						received by: (Signature)	Da	te	_	Time					11	To-	000	4	12	<u>T3</u>	
Sample Ma	trix: S - Soil, Sd - S	Solid, Sg - Slu	idge, A - Aqui	eous, 0 - Othe	er			Co	ntainer	Туре	e: g -	glass,	p - p	ooly/i	olasti			np °C per gl	ass, v	- VOA		
Note: San	ples are discar	ded 14 day	s after resu	lts are repor	ted unless			rdous sample	es will be	retu	rned t	to clier	nt or	dispo	sed of	at th					for the analysis of the above	
samples is	applicable onl	y to those s	samples rec	eived by the	laborator	y with th	is COC. The liability of the la	boratory is li	mited to	the a	mour	nt paid	for o	n the	repor	rt.						





envirotech Inc.

Printed: 1/7/2025 9:12:43AM

Envirotech Analytical Laboratory

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:	01/07/25 0	7:15	Work Order ID:	E501024
Phone:	(972) 371-5200	Date Logged In:	01/06/25 1	4:28	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	01/13/25 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>ırier</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Commen</u>	ts/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes C			
Sample C	, <u>*</u>		_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field Lab	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	<u> </u>		
C	ollectors name?		No			
	reservation					
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: N	JA	
Client Ir	nstruction_					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E501035

Job Number: 23003-0002

Received: 1/8/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/10/25

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: 1/10/25

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

Project Name: General Kehoe #228H

Workorder: E501035

Date Received: 1/8/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/8/2025 7:15:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

T	itle Page	1
C	Cover Page	2
T	able of Contents	3
S	ample Summary	5
S	ample Data	6
	BH05-10'	6
	BH05-12'	7
	BH05-14'	8
	BH05-16'	9
	BH05-18'	10
	BH02-6'	11
	BH02-8'	12
	BH02-10'	13
	BH03-7'	14
	BH03-9'	15
	BH04-8'	16
	BH04-10'	17
	BH04-12'	18
	BH04-14'	19
	BH04-16'	20
	BH04-18'	21
C	C Summary Data	22
	QC - Volatile Organics by EPA 8021B	22
	QC - Nonhalogenated Organics by EPA 8015D - GRO	23
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo01/10/25 15:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-10'	E501035-01A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-12'	E501035-02A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-14'	E501035-03A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-16'	E501035-04A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-18'	E501035-05A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-6'	E501035-06A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-8'	E501035-07A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-10'	E501035-08A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH03-7'	E501035-09A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH03-9'	E501035-10A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-8'	E501035-11A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-10'	E501035-12A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-12'	E501035-13A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-14'	E501035-14A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-16'	E501035-15A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-18'	E501035-16A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH05-10' E501035-01

	E301033-01				
D 1			D 1		N.
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0500	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
	86.1 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	20.0	1	01/08/25	01/09/25	
	96.1 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
ND	25.0	1	01/08/25	01/08/25	
ND	50.0	1	01/08/25	01/08/25	
	112 %	50-200	01/08/25	01/08/25	
mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
1220	200	10	01/08/25	01/08/25	
	ND mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 86.1 % mg/kg MD 20.0 96.1 % mg/kg ND 25.0 ND 50.0 112 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 86.1 % 70-130 mg/kg mg/kg Analy ND 20.0 1 96.1 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 112 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: SL ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0500 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 mg/kg Malyst: SL 01/08/25 mg/kg Malyst: SL 01/08/25 mg/kg Malyst: NV ND 20.0 1 01/08/25 mg/kg Mg/kg Analyst: NV ND 25.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 1 01/08/25 mg/kg Mg/kg Analyst: JM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0500 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 01/08/25 ND 50.0 1 01/08/25 01/08/25 ND 50.0 1 01/08/25 01/08/25

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH05-12'

E501035-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
p-Xylene	ND	0.0250	1	01/08/25	01/09/25	
o,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		86.5 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		122 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2502047
Chloride	1120	200	10	01/08/25	01/08/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH05-14' E501035-03

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0500	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
	86.9 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
ND	20.0	1	01/08/25	01/09/25	
	93.6 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analys	t: NV		Batch: 2502045
ND	25.0	1	01/08/25	01/08/25	
ND	50.0	1	01/08/25	01/08/25	
	112 %	50-200	01/08/25	01/08/25	
mg/kg	mg/kg	Analys	t: JM		Batch: 2502047
1116/116	88				
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 86.9 % mg/kg MD 20.0 93.6 % mg/kg ND 25.0 ND 50.0 112 %	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 86.9 % 70-130 mg/kg mg/kg Analys ND 20.0 1 93.6 % 70-130 70-130 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 112 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0500 1 01/08/25 ND 0.0250 1 01/08/25 mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 1 01/08/25	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH05-16' E501035-04

		E301033-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	•		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Foluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		84.9 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		113 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2502047
Chloride	1110	200	10	01/08/25	01/08/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH05-18' E501035-05

	1301053 03				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0500	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
	85.2 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	20.0	1	01/08/25	01/09/25	
	96.0 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
ND	25.0	1	01/08/25	01/08/25	
ND	50.0	1	01/08/25	01/08/25	
	115 %	50-200	01/08/25	01/08/25	
mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
1750	200	10	01/08/25	01/08/25	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 85.2 % mg/kg mg/kg mg/kg ND 20.0 96.0 % mg/kg ND 25.0 ND 50.0 115 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 85.2 % 70-130 mg/kg mg/kg Analys ND 20.0 1 96.0 % 70-130 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 115 % 50-200 mg/kg mg/kg Analys	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0500 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 01/08/25 Mg/kg mg/kg Analyst: JM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0500 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: SL 01/09/25 mg/kg mg/kg Analyst: SL 01/09/25 mg/kg mg/kg Analyst: NV 01/08/25 01/09/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 01/08/25 ND 25.0 1 01/08/25 01/08/25 01/08/25 ND 50.0 1 01/08/25 01/08/25 ND 50.0 0 01/08/25 01/08/25



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH02-6'

E501	025	~
11.7111	1117-	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		85.6 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		110 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2502047
Chloride	206	200	10	01/08/25	01/08/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH02-8'

E501035-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		87.9 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		113 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2502047
Chloride	373	200	10	01/08/25	01/08/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH02-10' E501035-08

		E301033-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
oluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Fotal Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		86.9 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		117 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
Chloride	416	200	10	01/08/25	01/08/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH03-7'

E501035-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		85.7 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		113 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2502047
Chloride	766	200	10	01/08/25	01/09/25	



Chloride

Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH03-9'

E501035-10						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		86.1 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		115 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2502047

200

10

01/08/25

01/09/25

539



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-8'

E501035-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		119 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2502047
Chloride	1110	200	10	01/08/25	01/09/25	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-10' E501035-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		87.5 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane		115 %	50-200	01/08/25	01/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2502047
Chloride	884	200	10	01/08/25	01/09/25	



Anions by EPA 300.0/9056A

Chloride

Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-12'

E501035-13 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: SL Batch: 2502039 mg/kg mg/kg Volatile Organics by EPA 8021B 01/08/25 01/09/25 ND 0.0250 Benzene 1 01/08/25 01/09/25 Ethylbenzene ND 0.0250ND 0.02501 01/08/25 01/09/25 Toluene 1 01/08/25 01/09/25 ND o-Xylene 0.02501 01/08/25 01/09/25 ND 0.0500 p,m-Xylene 01/09/25 01/08/25 1 Total Xylenes ND 0.025001/08/25 01/09/25 87.3 % 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: SL Batch: 2502039 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 01/09/25 ND 20.0 1 01/08/25 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 96.0 % 01/08/25 01/09/25 70-130 mg/kg mg/kg Analyst: NV Batch: 2502045 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 01/08/25 01/09/25 Diesel Range Organics (C10-C28) 01/08/25 01/09/25 Oil Range Organics (C28-C36) ND 50.0 1 01/08/25 01/09/25 Surrogate: n-Nonane 113 % 50-200

mg/kg

200

mg/kg

990

Analyst: JM

01/08/25

01/09/25

10



Batch: 2502047

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-14'

E501035-14						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		87.7 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
Surrogate: n-Nonane		115 %	50-200	01/08/25	01/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
Chloride	893	200	10	01/08/25	01/09/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-16' E501035-15

	E301033-13				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
ND	0.0500	1	01/08/25	01/09/25	
ND	0.0250	1	01/08/25	01/09/25	
	88.7 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
ND	20.0	1	01/08/25	01/09/25	
	94.3 %	70-130	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
ND	25.0	1	01/08/25	01/09/25	
ND	50.0	1	01/08/25	01/09/25	
	114 %	50-200	01/08/25	01/09/25	
mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
1010	200	10	01/08/25	01/09/25	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 88.7 % mg/kg MD 20.0 94.3 % mg/kg ND 25.0 ND 50.0 114 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 88.7 % 70-130 mg/kg mg/kg Analy ND 20.0 1 94.3 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 114 % 50-200 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0500 1 01/08/25 ND 0.0250 1 01/08/25 ND 0.0250 1 01/08/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 1 01/08/25 ND 50.0 1 01/08/25 Mg/kg mg/kg Analyst: NV	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0500 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 ND 0.0250 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: SL ND 20.0 1 01/08/25 01/09/25 mg/kg mg/kg Analyst: SL 01/09/25 mg/kg mg/kg Analyst: NV ND 25.0 1 01/08/25 01/09/25 ND 25.0 1 01/08/25 01/09/25 ND 50.0 1 01/08/25 01/09/25 ND 50.0 1 01/08/25 01/09/25 ND



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

BH04-18' E501035-16

		E301033-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
oluene	ND	0.0250	1	01/08/25	01/09/25	
-Xylene	ND	0.0250	1	01/08/25	01/09/25	
o,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	01/08/25	01/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
Surrogate: n-Nonane		111 %	50-200	01/08/25	01/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2502047
Chloride	1190	200	10	01/08/25	01/09/25	



QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 1/10/2025 3:33:13PM **Volatile Organics by EPA 8021B** Analyst: SL RPD Reporting Spike Source Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2502039-BLK1) Prepared: 01/08/25 Analyzed: 01/08/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.93 8.00 86.7 70-130 LCS (2502039-BS1) Prepared: 01/08/25 Analyzed: 01/08/25 5.10 5.00 102 70-130 0.0250 Benzene Ethylbenzene 4.88 0.0250 5.00 97.6 70-130 70-130 5.01 0.0250 5.00 100 Toluene 4.87 97.5 70-130 o-Xylene 0.0250 5.00 9.89 10.0 98.9 70-130 0.0500 p,m-Xylene 98.4 70-130 14.8 0.0250 15.0 Total Xylenes 8.00 89.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.12 Matrix Spike (2502039-MS1) Source: E501035-03 Prepared: 01/08/25 Analyzed: 01/09/25

Matrix Spike Dup (2502039-MSD1)				Source:	E501035-0	03	Prepared: 01/08/25 Analyzed: 01/09/25
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	
o-Xylene	5.03	0.0250	5.00	ND	101	63-131	
Toluene	5.19	0.0250	5.00	ND	104	61-130	
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133	
Benzene	5.28	0.0250	5.00	ND	106	54-133	

Matrix Spike Dup (2302037-MSD1)				Source.	E301033-0	,,	r repared. Or	706/25 Allalyzed. 01/09/2.	3
Benzene	5.24	0.0250	5.00	ND	105	54-133	0.784	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	1.00	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	0.895	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	1.39	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.902	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.06	20	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.0	70-130			

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/10/2025 3:33:13PM

Dallas TX, 75240		Project Manage	r: As	1/10/2025 3:33:13PM					
	Non	halogenated		Analyst: SL					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2502039-BLK1)							Prepared: 0	1/08/25 Ana	lyzed: 01/08/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			
LCS (2502039-BS2)							Prepared: 0	1/08/25 Ana	lyzed: 01/09/25
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			
Matrix Spike (2502039-MS2)				Source:	E501035-	03	Prepared: 0	1/08/25 Ana	lyzed: 01/09/25
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			
Matrix Spike Dup (2502039-MSD2)				Source:	E501035-	03	Prepared: 0	1/08/25 Ana	lyzed: 01/09/25
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.5	70-130	7.85	20	

8.00

7.85

98.1

70-130

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/10/20253:33:13PM

Danas 1A, 75240			1.10.2020 0.00.101141						
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2502045-BLK1)							Prepared: 0	1/08/25	Analyzed: 01/08/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			
LCS (2502045-BS1)							Prepared: 0	1/08/25	Analyzed: 01/08/25
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			
Matrix Spike (2502045-MS1)				Source:	E501035-0)4	Prepared: 0	1/08/25	Analyzed: 01/08/25
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			
Matrix Spike Dup (2502045-MSD1)				Source:	E501035-0)4	Prepared: 0	1/08/25	Analyzed: 01/08/25
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.00756	20	
Surrogate: n-Nonane	56.4		50.0		113	50-200			

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228H5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo									Reported: 1/10/2025 3:33:13PM			
	Analyst: JM											
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes			

Blank (2502047-BLK1)							Prepared: 0	1/08/25 Anal	yzed: 01/08/25		
Chloride	ND	20.0									
LCS (2502047-BS1)							Prepared: 0	1/08/25 Anal	yzed: 01/08/25		
Chloride	251	20.0	250		100	90-110					
Matrix Spike (2502047-MS1)					E501035-0	05	Prepared: 01/08/25 Analyzed: 01/08/2				
Chloride	2130	200	250	1750	149	80-120			M4		
Matrix Spike Dup (2502047-MSD1)				Source:	E501035-0	05	Prepared: 0	1/08/25 Anal	yzed: 01/08/25		
			250	1750	166	80-120	1.92	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/10/25 15:33

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.

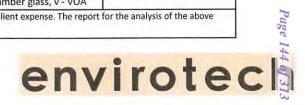
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page _	of _

Client Information Invoice Information											L	ab Us	Use Only					TA	T	State		
Client: 1	Matador Proc	luction Co	ompany			Company: Ensolum LLC			La	b WO	#		Job	Num	ber		1D	2D	3D Std	NM	CO UT	TX
Project:	General We	noe #	128tt			Address: 3122 National	Parks Hwy		_ E	50	103	5	23	003	0	02			+	+		
Project N	Manager: As	hley Giov	engo			City, State, Zip: Carlsbac	d NM, 88220															
Address	3122 Natio	nal Parks	Hwy			Phone: 575-988-0055	one: 575-988-0055					Ana	lysis	and	Met	hod	EF	A Progra	am			
City, Sta	te, Zip: Carls	bad NM,	88220			Email: agiovengo@en	solum.com													SDWA	CWA	RCRA
Phone:	575-988-005	5			1	Miscellaneous:																
Email: a	: agiovengo@ensolum.com									10	Ŋ									Complian	ce Y	or N
										/80	/ 8015	-		0.0	_	×	als			PWSID#		
				Sam	ple Inform	ation				(d 0)	(Q D)	802	8260	300	N.	1-50	Net l		Na Na			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID			Lab Numbe	DRO/ORO by 8015	SRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	rcea 1005 - TX	RCRA 8 Metals				Remarks	
0849	1/6/25	Soil	1		BH	BH05-10'			1				_	Ü	*		<u>.</u>					
						10 10			-		-	-			1							
0917		1				-12'			2						+							
1005						-14'			3						+							
1212						-161			4						X							
1234					1	-181			N						X							
1258					BH	BH02-6'			6						*							
1309					1	-8'			7	5					+							
1315						1 -101			8						+							
1402					BH	53 - 71			9			П			+							
1423	. /		1,			· - al			10)	T				1							
	V	V	V			, -1		110					-11-6		1							
Addition	nai instructio	ns: Plea	ase CC: ci	ourton@e	ensolum.co	m, agiovengo@ensolun	n.com, cnam	ilitor	nœens	olum.	com,	iestr	eliac	vens	olum	1.con	n					
1 Ifield cam	plan) attact to the	a validity and	authonticit	of this same	la Lamawara	that tampering with or intention	ally mislaheling t	he san	nnle locat	tion dat	e or tin	ne of co	lectio	n is co	nsider	ed frau	d and	may he	e grounds fo	r legal action		
Sampled by	: Israel	estrelli	i and :	Jenna H	CAMLE	that tampering with or intention	idily misiabeling c	ne sun	inpic local	tion, au			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						8.02			
	ed by: (Signatu				Time	Received by: (Signature)		Date	7 7 7	Tim	e			- 1	Sampl	les requ	iring the	ermal p	reservation m	ust be received	on ice the da	y they are
	a Hink		1/-	1/25	7:30	Received by: (Signature)	mealec	1-	725	10	73	0				ed or re		packed	in ice at an a	g temp above () but less than	6 °C on
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	8	Date		Tim					Sunse	quent a	avs		Lab U	se Only		
Mic	helle G	meale	c It	7-25	1550	LL USS	, n	1-	7-25	5 1	60	0			Rec	eived	oni	ice:	(V)1	V		
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1-7-25 2200 /						121	10	1.72	1	10				T1				T2		<u>T3</u>		
Relinquish	ed by: (Signatur	re)	Date		Time	ecei d by Sinaure	Man	Date		Tim	e				AVC	5 Ten	nn °C		t			
Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Sluc	dge, A - Aqu	eous, O - Othe	er			Cont	ainer T	ype: g	- glas	s, p -	poly/	plasti					- VOA			
						her arrangements are made.	Hazardous sam													for the ana	lysis of the	above
						vith this COC. The liability of t																

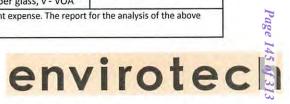




Page 2	of
e TX	Received by OCD: 3/5/2025 12:00:21 AM
am RCRA)CD: 3,
or N	/5/2025
S	12:00:21
	AM

	Clie	nt Inform	nation			Invoice Inform	nation				La	b Us	e On	ly				TA	r		State	
Client: N	Natador Prod	duction C	ompany		Cor	npany: Ensolum LLC			Lab	WO#			1 doL	Numl	oer		1D	2D	3D St	d	NM CO UT T	X
Project:	Greneral	hehre	#22	148	Add	dress: 3122 National P	arks Hwy		_ E	#ow loc	03	5	23	003	·m	20				-	*	
Project N	Manager: As	hley Giov	engo		City	, State, Zip: Carlsbad N	NM, 88220										90		5.00			
Address:	3122 Natio	nal Parks	Hwy		Pho	ne: 575-988-0055							Ana	lysis	and	Met	hod				EPA Program	6
City, Stat	e, Zip: Carls	bad NM,	88220		Em	ail: agiovengo@enso	olum.com														SDWA CWA	RCRA
	575-988-005					cellaneous:																
	giovengo@e		om							ın	22		0 13			/				C	Compliance Y C	or N
										801	801			0.		~	S			ī	PWSID#	
				Samı	ple Informatio	on				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					
Time	Date Sampled	Matrix	No. of			Sample ID	2	Filter	Lab Number	3/0	J/DF	X by	C by	oride	200	Q 100	8 A 8				Remarks	
Sampled	Date Sampled	IVIALTIX	Containers			Sample 10	ii	1	Number	DRC	GRC	BTE	Š	ਤੱ	BGI	TCE	RCF					
1445	1/6/25	Soil	1		BH6	4-81			11						+							
1505		1	1		-	-101			12						+							
1521						-12"			13						+							
1544						-14'			14						+					1		
1550						1/6									1				+	+		
						-16			15	-					_				+	+		
1617	J	V	V		V	-18'			16						+					-		
																				4		
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Addition	al Instruction	ns: Ple	ase CC: o	burton@e	ensolum.com,	agiovengo@ensolum.	com, cham	ilto	n@enso	lum.c	om,	iestr	ella@	ens	olum	ı.con	n					
I, (field sam	oler), attest to th	e validity and	d authentici	ty of this samp	le. I am aware tha	t tampering with or intentionall	ly mislabeling th	ne san	nple locatio	n, date	or tim	e of co	llection	n is cor	nsidere	ed frau	d and r	may be	grounds	for l	egal action.	
	Israel					Insert and how for		Dat-		Tr					Samel	oc rom	iring the	ormal ne	econvation	n mus	t be received on ice the day th	ev are
	ed by: (Signatu		Dat	7/25	7: 30	Received by: (Signature)	nantes	I-	725	O	73	O			sample	ed or re	ceived p				temp above 0 but less than 6 °	
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	rix: S - Soil, Sd - S					arrangements are made. Ha														ort fe	or the analysis of the ah	oove
						this COC. The liability of the										- circi	capi		пстерс		silanjala or the do	10,0





envirotech Inc.

Printed: 1/8/2025 8:29:07AM

Envirotech Analytical Laboratory

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:	01/08/25 (07:15		Work Order ID:	E501035
Phone:	(972) 371-5200	Date Logged In:	01/07/25 1	14:50		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	01/14/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	e number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>Co</u>	<u>ourier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	•	· 1 · · · · ·	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·	ners conceica.	105				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
-	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab:	NA		
	struction						
Chem In	isti uction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412204

Job Number: 23003-0002

Received: 1/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/8/25

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.

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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/8/25

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

Project Name: General Kehoe #228H

Workorder: E412204

Date Received: 1/3/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/3/2025 6:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BG04-0'	6
BG04-1'	7
BG04-2'	8
BG04-3'	9
BG04-4'	10
BG04-5'	11
BG01-0'	12
BG01-1'	13
BG01-2'	14
BG01-3'	15
BG01-4'	16
BG01-5'	17
BG02-0'	18
BG02-1'	19
BG02-2'	20
BG02-3'	21
BG02-4'	22
BG02-5'	23
BG03-0'	24
BG03-1'	25

Table of Contents (continued)

BG03-2'	26
BG03-3'	27
BG03-4'	28
BG03-5'	29
QC Summary Data	30
QC - Volatile Organics by EPA 8021B	30
QC - Nonhalogenated Organics by EPA 8015D - GRO	32
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
QC - Anions by EPA 300.0/9056A	36
Definitions and Notes	38
Chain of Custody etc.	39

Sample Summary

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo01/08/25 10:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG04-0'	E412204-01A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-1'	E412204-02A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-2'	E412204-03A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-3'	E412204-04A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-4'	E412204-05A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-5'	E412204-06A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-0'	E412204-07A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-1'	E412204-08A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-2'	E412204-09A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-3'	E412204-10A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-4'	E412204-11A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-5'	E412204-12A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-0'	E412204-13A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-1'	E412204-14A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-2'	E412204-15A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-3'	E412204-16A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-4'	E412204-17A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-5'	E412204-18A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-0'	E412204-19A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-1'	E412204-20A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-2'	E412204-21A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-3'	E412204-22A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-4'	E412204-23A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-5'	E412204-24A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-0' E412204-01

		E412204-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
p-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		119 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2501046
Chloride	ND	20.0	1	01/03/25	01/03/25	

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-1' E412204-02

		E-112207-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		109 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	1800	200	10	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-2'

		E412204-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		113 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2501046
Chloride	1980	200	10	01/03/25	01/03/25	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-3' E412204-04

		E-112207-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		Analyst: SL			Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		106 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AK		Batch: 2501046
Chloride	1740	100	5	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-4' E412204-05

		L-11220-1-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		112 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	759	200	10	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG04-5' E412204-06

		L-11220-1-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		116 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	673	200	10	01/03/25	01/03/25	



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5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-0' E412204-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		115 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: AK		Batch: 2501046
Chloride	ND	20.0	1	01/03/25	01/03/25	·



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5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-1'

		E412204-08				
Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
p-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		109 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2501046
Chloride	359	100	5	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-2' E412204-09

		1111110107				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		109 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	722	40.0	2	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-3' E412204-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		119 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AK		Batch: 2501046
Chloride	744	40.0	2	01/03/25	01/03/25	

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-4' E412204-11

		2.112207 11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		97.4 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		115 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	495	200	10	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG01-5' E412204-12

		E-112204-12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		111 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: AK		Batch: 2501046
Chloride	457	100	5	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-0'

E412204-13						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	nalyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	nalyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		116 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: AK		Batch: 2501046
Chloride	137	20.0	1	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-1'

E412204-14

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		109 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: AK		Batch: 2501046
Chloride	1950	100	5	01/03/25	01/03/25	



	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
:	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
]	Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-2'

E41	220	4-1	5

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		117 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2501046
Chloride	1840	40.0	2	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-3'

		E412204-16				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		118 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: AK		Batch: 2501046
Chloride	1640	40.0	2	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-4'

		E412204-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
Surrogate: n-Nonane		112 %	50-200	01/03/25	01/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: AK		Batch: 2501046
Chloride	948	200	10	01/03/25	01/03/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG02-5'

		E412204-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
Surrogate: n-Nonane		107 %	50-200	01/03/25	01/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AK		Batch: 2501046
Chloride	964	200	10	01/03/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-0' E412204-19

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.2 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
Surrogate: n-Nonane		105 %	50-200	01/03/25	01/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2501046
Chloride	538	200	10	01/03/25	01/04/25	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-1'

		E412204-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
Surrogate: n-Nonane		119 %	50-200	01/03/25	01/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2501046
Chloride	525	40.0	2	01/03/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-2'

E412204-21

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501031
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2501031
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2501017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		105 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	Analyst: DT		Batch: 2501048
Chloride	833	40.0	2	01/04/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-3'

E412204-22

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2501031
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2501031
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2501017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		112 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2501048
Chloride	1040	40.0	2	01/04/25	01/04/25	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-4'

		E412204-23				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2501031
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
p-Xylene	ND	0.0250	1	01/03/25	01/03/25	
o,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2501031
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2501017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		111 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2501048
Chloride	590	100	5	01/04/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

BG03-5'

		E412204-24				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	Analyst: SL		Batch: 2501031
Benzene	ND	0.0250	1	01/03/25	01/04/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/04/25	
Toluene	ND	0.0250	1	01/03/25	01/04/25	
o-Xylene	ND	0.0250	1	01/03/25	01/04/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/04/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/04/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	01/03/25	01/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2501031
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/04/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	70-130	01/03/25	01/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2501017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		106 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2501048
Chloride	583	100	5	01/04/25	01/04/25	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Matador Resources, LLC. General Kehoe #228H Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002

Dallas TX, 75240		Project Manager:		shley Giovengo)			1	/8/2025 10:24:41AM	
		Volatile Organics by EPA 8021B					Analyst: SL			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2501028-BLK1)						1	Prepared: 0	1/03/25 An	alyzed: 01/03/25	
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 (2501028-BS1)]	Prepared: 0	1/03/25 An	alyzed: 01/03/25	
Benzene	4.79	0.0250	5.00		95.9	70-130				
Ethylbenzene	4.79	0.0250	5.00		95.7	70-130				
Toluene	4.84	0.0250	5.00		96.8	70-130				
o-Xylene	4.78	0.0250	5.00		95.6	70-130				
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130				
Total Xylenes	14.5	0.0250	15.0		96.9	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130				
LCS Dup (2501028-BSD1)]	Prepared: 0	1/03/25 An	alyzed: 01/03/25	
Benzene	4.76	0.0250	5.00		95.2	70-130	0.761	20		
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130	0.756	20		
Toluene	4.80	0.0250	5.00		96.1	70-130	0.746	20		
o-Xylene	4.74	0.0250	5.00		94.8	70-130	0.780	20		
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130	0.602	20		
Total Xylenes	14.4	0.0250	15.0		96.3	70-130	0.661	20		

70-130



Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Matador Resources, LLC. Project Name: General Kehoe #228H Reported:
5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002
Dallas TX, 75240 Project Manager: Ashley Giovengo 1/8/2025 10:24:41AM

Dallas TX, 75240		Project Number: Project Manager:		shley Gioveng	o			1/8	/2025 10:24:41AM
	Volatile Organics by EPA 8021B								Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2501031-BLK1)						I	Prepared: 0	1/03/25 Analy	yzed: 01/03/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			
LCS (2501031-BS1)						I	Prepared: 0	1/03/25 Analy	yzed: 01/06/25
Benzene	5.53	0.0250	5.00		111	70-130			
Ethylbenzene	5.34	0.0250	5.00		107	70-130			
Toluene	5.45	0.0250	5.00		109	70-130			
o-Xylene	5.27	0.0250	5.00		105	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.1	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		85.9	70-130			
LCS Dup (2501031-BSD1)						I	Prepared: 0	1/03/25 Analy	yzed: 01/06/25
Benzene	5.45	0.0250	5.00		109	70-130	1.32	20	
Ethylbenzene	5.21	0.0250	5.00		104	70-130	2.43	20	
Toluene	5.35	0.0250	5.00		107	70-130	1.89	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	2.15	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.74	20	

8.00

70-130

70-130

2.54

20

0.0250

6.80



QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/8/2025 10:24:41AM

Nonhalogenated	Organics b	v EPA	8015D -	GRO
	0 - 8	,		

Analyst: SL

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

Blank (2501028-BLK1)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00	89.3	70-130			
LCS (2501028-BS2)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00	90.6	70-130			
LCS Dup (2501028-BSD2)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	91.5	70-130	0.816	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00	90.4	70-130			



QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/8/2025 10:24:41AM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Analyst: SL

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

Blank (2501031-BLK1)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00	85.6	70-130			
LCS (2501031-BS2)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00	86.6	70-130			
LCS Dup (2501031-BSD2)						Prepared: 0	1/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	38.2	20.0	50.0	76.5	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00	87.6	70-130			



QC Summary Data

General Kehoe #228H Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 1/8/2025 10:24:41AM Dallas TX, 75240 Project Manager: Ashley Giovengo

	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: NV	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2501017-BLK1)							Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			
LCS (2501017-BS1)							Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
LCS Dup (2501017-BSD1)							Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132	4.38	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/8/2025 10:24:41AM

,		, ,		, ,	2									
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit						
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes					
Blank (2501030-BLK1)							Prepared: 0	1/03/25 An	alyzed: 01/03/25					
Diesel Range Organics (C10-C28)	ND	25.0												
Oil Range Organics (C28-C36)	ND	50.0												
Surrogate: n-Nonane	52.0		50.0		104	50-200								
LCS (2501030-BS1)							Prepared: 0	1/03/25 An	alyzed: 01/03/25					
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132								
Surrogate: n-Nonane	53.8		50.0		108	50-200								
Matrix Spike (2501030-MS1)				Source:	E412204-	03	Prepared: 0	1/03/25 An	alyzed: 01/03/25					
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132								
Surrogate: n-Nonane	55.4		50.0		111	50-200								
Matrix Spike Dup (2501030-MSD1)				Source:	E412204-	03	Prepared: 0	1/03/25 An	alyzed: 01/03/25					
Diesel Range Organics (C10-C28)	301	25.0	250	ND	121	38-132	1.40	20						
Surrogate: n-Nonane	55.5		50.0		111	50-200								

LCS Dup (2501046-BSD1)

Chloride

Prepared: 01/03/25 Analyzed: 01/03/25

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	General Kehoe #228H 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Analyte Reporting Spike Source Rec RPD Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % % Blank (2501046-BLK1) Prepared: 01/03/25 Analyzed			Anions	by EPA 3	00.0/9056 <i>A</i>	\				
Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Blank (2501046-BLK1) Prepared: 01/03/25 Analyzed										Analyst: AK
			Limit	Level	Result		Limits		Limit	Notes
	K1)							Prepared: 0	1/03/25 A	nalyzed: 01/03/25
Chloride ND 20.0		ND	20.0							
LCS (2501046-BS1) Prepared: 01/03/25 Analyzed)							Prepared: 0	1/03/25 A	nalyzed: 01/03/25
Chloride 253 20.0 250 101 90-110		253	20.0	250		101	90-110			

250

20.0

101

90-110

0.102



Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	General Kehoe #228H 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

		Anions	by EPA 3	00.0/9056 <i>A</i>	\				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	/0	/0	/0	/0	Notes

Blank (2501048-BLK1)						Prepared: 01	1/04/25	Analyzed: 01/04/25
Chloride	ND	20.0						
LCS (2501048-BS1)						Prepared: 01	1/04/25	Analyzed: 01/04/25
Chloride	252	20.0	250	101	90-110			
LCS Dup (2501048-BSD1)						Prepared: 01	1/04/25	Analyzed: 01/04/25
Chloride	253	20.0	250	101	90-110	0.545	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

I	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/25 10:24

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.



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	latador Prod			2011		Company: Ensolum LLC		La	ab WO	#	.,,		Num		_	1D	2D	3D Std		CO UT	TX
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	3122 Nation					Phone: 575-988-0055	, 88220	_			-	Ana	lysis	and	Met	hod			EP	A Progra	m
	e, Zip: Carlsl		88220			Email: agiovengo@ensolum	n.com												SDWA	CWA	RCRA
	75-988-005				I	Aiscellaneous:															
Email: a	giovengo@er	isolum.co	om		L				by 8015	3015			_			5			Compliance PWSID #	e Y	or N
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	er DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			9	Remarks	
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934						3)		4						X							
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1000					Ť	3601-01		7						X							
1005						100		8						X							
1007						2'		9						X							
1008		7	1			J 31		10						X							
Addition	al Instructio	ns: Plea	ase CC: cb	urton@e	ensolum.co	m, agiovengo@ensolum.com	n, iestrella	@ensol	lum.co	m, ch	nami	lton@	ens	olun	n.con	n, bs	immo	ons@ens	olum.com	1	
I, (field samp	oler), attest to the	validity and	authenticity	of this samp	e. I am aware	that tampering with or intentionally mis	labeling the sa	imple locat	tion, date	e or tim	e of co	llectio	n is co	nsider	ed frau	d and i	may be	grounds for	legal action.		
Relinguish	ed by: (Signatur	re)	Date	-	Time	Received by: (Signature)	Date		Time	e		1		Sampl	es requi	iring the	ermal pr	eservation m	ust be received	on ice the da	they are
·	ed by: (Signatur	+-	12/	31/24-	8:15	Mighelle Ganz	ales 12.	31.2	1 6	3815	5			sample		ceived ;			g temp above 0		
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	Page
	186
-	of 313

	Client Information Invoice Information									La	b Us	se Or	ılv				TA	AT.			Stat	P
Client: N	Matador Prod	duction C	ompany		C	ompany: Ensolum LLC	X-100 9 9	Lab	MOt			Job		her	-	10		3D Sto	1	NINA	CO UT	
	General					ddress: 3122 National Pa	rks Hwv	FZ.	117	20	4	23	SAR	m	7	ID	20	3D 3H		WIVI	0	11/
	Manager: As					ity, State, Zip: Carlsbad Ni		L	46	00	-	4	000	·u	20	_		7				1
	3122 Natio					none: 575-988-0055	141, 00220	Analysis and Method						-	- CF	A Progra	200					
200	te, Zip: Carls					mail: agiovengo@ensolu		1	-			Alle	ilysis	anu	ivie	Tiou			CDI		_	
1-2	575-988-005		00220				um.com	- 1											20	WA	CWA	RCRA
	giovengo@e		om		IVI	iscellaneous:		1 1														
Lindii. a	giovengowe	iisoiuiii.c	.0111					7 1	8015	8015		l							_	plian	ce Y	or N
				Sam	ple Informat	ion			þ) by 8(3021	260	Chloride 300.0	NN	XT-	RCRA 8 Metals			PWS	SID#		
Time			No. of			2400.0404	b H	ab	ORG	/DRC	by 8	by 8	ide	50	100	00		4	1		Remarks	
Sampled	Date Sampled	Matrix	Container			Sample ID	Field	mber	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chlor	BGDOC - NM	TCEQ 1005 - TX	RCRA					nemon.	
1009	12/30/24	501	1		Ţ	361-47	1	(X								
1013	1	1				J 5'	1	Z						X								
1027					1	3G02-01	13	3						¢								
1029						1 1'	10	4						X								
1031		0				2'	12	5						×								
1033						3'	1	6						X								
1034						4'	ſ	7						×								
1040						1 5'	1	8				8 1		X								
1157					B	6903-01	li	9						X								
1205	V	1	1			↓ 1'	2	0.0						1								
Addition	nal Instruction	ns: Ple	ase CC:	cburton@	ensolum.com	n, agiovengo@ensolum.co	om, iestrella@en	solum	ı.cor	n, ch	amil	ton@	ens	olur	n.cor	n, bs	immo	ons@en	solun	ı.con	1	
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	ed by: (Signatu		Dat		Time				_					-				1117 to 120 to				
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Relinquish	ed by: (Signatu	re)	Dat		Time	Received by: (Signature)	Date		Time					Δνισ	AVG Temp °C 4							
Sample Mat	trix: S - Soil, Sd - S	iolid, Sg - Slu	dge, A - Aq	ueous, O - Oth	ner	1	Containe	er Type	: g -	glass.	p-r	olv/r	olasti					- VOA	-			
						er arrangements are made. Haza													t for the	e anal	vsis of the	ahove
samples is	applicable only	to those s	amples re	ceived by th	e laboratory wit	h this COC. The liability of the la	aboratory is limited t	o the a	mour	nt paid	for o	on the	repor	t.	2 -11-61	np		c.cpoi		Gridi	, and the	COOTE



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Page	5	of	5

Client Information			Invoice Informati	ion		Lab Use Only						TAT S			State	te					
	Matador Prod					Company: Ensolum LLC		L	ab W	0#_		Job	Num	ber		1D 2D 3D Std			NM CO UT TX		
	General			2H.		Address: 3122 National Park		E	E41220423			303.002					X	X		12/62	
	/lanager: As					City, State, Zip: Carlsbad NM	, 88220	_													
Address: 3122 National Parks Hwy				hone: 575-988-0055						Analysis and Me			Met	ethod			EPA Program				
	e, Zip: Carls		88220		1	Email: agiovengo@ensolun	n.com	_											SDWA	CWA	RCRA
	575-988-005				M	liscellaneous:														- [
Email: a	giovengo@e	nsolum.c	om	-					7108	015	GTO								Compliant PWSID #	ce Y	or N
				Samr	le Informa	tion				by a	021	097	0.00	Σ	X.	etals			PWSID#		
Time			No. of	Janie	ne miorina	4 × 4 × 6	ю ;	Lab	9		by 8	by 82	ide 3	- JC	1005	8				Remarks	
Sampled	Date Sampled	Matrix	Containers			Sample ID	Field	Lab Numb	er ac	GRO/ORO by 8013	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Hemorks	
1207	12/30/24	9691	1		d	B 4 03 - 21		21						X							
1208			1			31		22						y							
1210						41		23	>					X							
1215	V	1				51		24						X							
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Addition	al Instruction	ns: Ple	ase CC: cbu	rton@e	nsolum.com	m, agiovengo@ensolum.com	n, iestrella	@enso	lum.c	om,	cham	ilton(@ens	olun	n.cor	n, bs	imm	ons@ens	olum.con	n	
I, (field sam	pler), attest to th	e validity and	d authenticity of	f this sample	e. I am aware t	that tampering with or intentionally mis	slabeling the sa	mple loca	tion, da	ate or t	time of c	ollectio	n is co	nsidere	ed frau	d and	may be	grounds for	legal action.		
			le Aden	mto/		Huleit.	-														
-	ed by: (Signatu	= -	12/3	31/24	7-15	Received by: (Signature)	aleg lo	1-31-2	4 Tin	D8	15			sample		ceived			ust be received g temp above (
Remodulish	d by (Signatu	re) ongol	es l-2	25	Time	Received by: (Signature)	Date	2.2		17	200				eived		ce:	Lab Us	se Only		
Religioush	ed by: (Signatu	re)	Date 1-2	.15	2400	Received by the grature	Date	3.25	Tjn	03	80			<u>T1</u>				T2		<u>T3</u>	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date		Tin	ne				AVG	Ten	np °C	4	1_			
	rix: S - Soil, Sd - S							itainer T								-					
						ner arrangements are made. Hazard									e clier	nt exp	ense.	The report	for the anal	ysis of the	above



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Page 41 of 42

envirotech Inc.

Printed: 1/3/2025 7:46:44AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

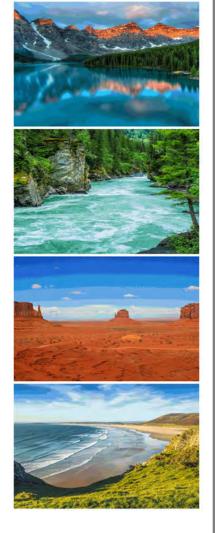
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	01/03/25	06:30	Work Order ID:	E412204
Phone:	(972) 371-5200	Date Logged In:	12/31/24	14:32	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	01/09/25	17:00 (4 day TAT)	-	
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes C			
Sample C	, <u>*</u>		_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field Lal	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	<u> </u>		
C	ollectors name?		No			
	reservation					
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA		
Client Ir	nstruction_					

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E501005

Job Number: 23003-0002

Received: 1/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/6/25

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: 1/6/25

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

Project Name: General Kehoe #228H

Workorder: E501005

Date Received: 1/3/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/3/2025 6:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG01 - 6'	5
BG02 - 6'	6
BG03 - 6'	7
BG04 - 6'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Donoutoda	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/06/25 12:42	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 6'	E501005-01A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG02 - 6'	E501005-02A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG03 - 6'	E501005-03A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG04 - 6'	E501005-04A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

BG01 - 6' E501005-01

		E201002-01				
	D 1	Reporting		D. I		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2501039
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		118 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2501048
Chloride	625	200	10	01/04/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

BG02 - 6' E501005-02

		E501005-02				
Aughte	Result	Reporting Limit	Dilution	Duomonod	A walviza J	Notes
Analyte	Resuit	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2501039
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		110 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2501048
Chloride	1040	200	10	01/04/25	01/04/25	·



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

BG03 - 6' E501005-03

		E301003-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	•		Batch: 2501027
Benzene	ND	0.0250	1	01/03/25	01/03/25	Batem 25 0 1 0 2 7
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	01/03/25	01/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2501039
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
Surrogate: n-Nonane		113 %	50-200	01/03/25	01/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2501048
Chloride	611	200	10	01/04/25	01/04/25	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

BG04 - 6' E501005-04

Result mg/kg	Reporting Limit	Dilution	Prepared		
mg/kg			. repuise	Analyzed	Notes
	mg/kg	Analys	st: SL		Batch: 2501027
ND	0.0250	1	01/03/25	01/03/25	
ND	0.0250	1	01/03/25	01/03/25	
ND	0.0250	1	01/03/25	01/03/25	
ND	0.0250	1	01/03/25	01/03/25	
ND	0.0500	1	01/03/25	01/03/25	
ND	0.0250	1	01/03/25	01/03/25	
	92.3 %	70-130	01/03/25	01/03/25	
mg/kg	mg/kg	Analys	st: SL		Batch: 2501027
ND	20.0	1	01/03/25	01/03/25	
	92.0 %	70-130	01/03/25	01/03/25	
mg/kg	mg/kg	Analys	st: NV		Batch: 2501039
ND	25.0	1	01/03/25	01/03/25	
ND	50.0	1	01/03/25	01/03/25	
	113 %	50-200	01/03/25	01/03/25	
mg/kg	mg/kg	Analys	st: DT		Batch: 2501048
744	200	10	01/04/25	01/04/25	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0 92.0 % mg/kg MD 25.0 ND 50.0 113 % mg/kg mg/kg mg/kg	ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 Output MR M	ND 0.0250 1 01/03/25 ND 0.0500 1 01/03/25 ND 0.0250 1 01/03/25 ND 0.0250 1 01/03/25 ND 0.0250 1 01/03/25 MD 0.0250 1 01/03/25 MD 0.0250 1 01/03/25 MD 0.0250 1 01/03/25 Mg/kg mg/kg Analyst: SL ND 20.0 1 01/03/25 Mg/kg mg/kg Analyst: NV ND 25.0 1 01/03/25 ND 50.0 1 01/03/25 ND 50.0 1 01/03/25 Mg/kg mg/kg Analyst: DT	ND 0.0250 1 01/03/25 01/03/25 ND 0.0500 1 01/03/25 01/03/25 ND 0.0250 1 01/03/25 01/03/25 ### Machine of the content of the c



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

Dallas TX, 75240		Project Manager	: As	shley Gioveng	go			1/6	5/2025 12:42:51PM
		Volatile C	rganics b	y EPA 802	21B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2501027-BLK1)						I	Prepared: 0	1/03/25 Anal	yzed: 01/03/25
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	7.10		8.00		88.7	70-130			
LCS (2501027-BS1)						I	Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Benzene	4.82	0.0250	5.00		96.3	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.80	0.0250	5.00		96.0	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			
LCS Dup (2501027-BSD1)						I	Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Benzene	4.98	0.0250	5.00		99.5	70-130	3.30	20	
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130	3.22	20	
Toluene	5.01	0.0250	5.00		100	70-130	3.29	20	
o-Xylene	4.93	0.0250	5.00		98.6	70-130	2.73	20	
p,m-Xylene	10.0	0.0500	10.0		100	70-130	3.08	20	
Total Xylenes	14.9	0.0250	15.0		99.6	70-130	2.97	20	



Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/6/2025 12:42:51PM

Nonhalogenated	Organics by	[,] EPA 8015D	- GRO

Analyst: SL

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

Blank (2501027-BLK1)						Prepared: 01	/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00	92.9	70-130			
LCS (2501027-BS2)						Prepared: 01	/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00	96.6	70-130			
LCS Dup (2501027-BSD2)						Prepared: 01	/03/25	Analyzed: 01/03/25
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	90.4	70-130	0.164	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00	97.1	70-130			



Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo1/6/2025 12:42:51PM

Danas 1X, 73240		1 Toject Manage	7.5	micy Gloveng	30			17.	5/2025 12.12.5111 1
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2501039-BLK1)							Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			
LCS (2501039-BS1)							Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			
Matrix Spike (2501039-MS1)				Source:	E501002-	01	Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	509	25.0	250	201	123	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			
Matrix Spike Dup (2501039-MSD1)				Source:	E501002-	01	Prepared: 0	1/03/25 Anal	yzed: 01/03/25
Diesel Range Organics (C10-C28)	579	25.0	250	201	151	38-132	12.9	20	M4
Surrogate: n-Nonane	58.3		50.0		117	50-200			



Chloride

Chloride

LCS Dup (2501048-BSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manager	: 2	General Kehoe 3003-0002 Ashley Gioven				Reported: 1/6/2025 12:42:511				
		Anions	by EPA	300.0/9056	A				Analyst: DT			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2501048-BLK1)						I	Prepared: 0	1/04/25 A	analyzed: 01/04/25			
Chloride	ND	20.0										
LCS (2501048-BS1)						I	Prepared: 0	1/04/25 A	nalyzed: 01/04/25			

250

250

101

101

90-110

90-110

0.545

Prepared: 01/04/25 Analyzed: 01/04/25

252

253

20.0

20.0

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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/06/25 12:42

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.



Released to Imaging: 3/5/2025 1:32:42 PM

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	Clie	nt Inform	nation				Invoice Informa	ation					La	b Us	e Or	Only TAT State											
Client: N	Matador Prod					Co	mpany: Ensolum LLC				ab V	VO#				Num	ber		1D	2D	3D	Std	İ	NM	col	TT	χT
	General Keh				-		Idress: 3122 National Par	rks Hwv		— i	FØ	7	00	5		۵3		S			+	X	i	х	-	+	
	/lanager: As					1 1-	v, State, Zip: Carlsbad NI			—۲			<u></u>														
	3122 Natio					Ph	one: 575-988-0055				Г				Ana	lysis	and	Met	hod			_		EP	A Pro	ram	í
City, Stat	e, Zip: Carls	bad NM,	88220			Er	nail: agiovengo@ensolu	um.com			Γ												SD	WA	ÇW/		RCRA
Phone:	575-988-005	5					scellaneous:												l		l	1					
Email: a	giovengo@e	nsolum.c	om_			!						21	51	, '							l		Com	plian	:e	Y (or N
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				Sam	ple li	nformati	on				_	ğ	ROP	, 802	826	8	ź	8	Ž	l	1						
Time Sampled	Date Sampled	Matrix	No. o Contain				Sample ID			Lab Numb	b ber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals						Remai	ks	
9:13	12/31/2024	S	1				BG01 - 6'			1							х										
9:18	12/31/2024	s	1				BG02 - 6'			2							х										
8:57	12/31/2024	S	1		BG03 - 6'				3	;						х											
8:40	12/31/2024	S	1				BG04 - 6'	1		4							x							_			
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Addition	al Instruction	ns: Held	on Ice	e. Please CO	: cbu	rton@ei	nsolum.com, agiovengo@	ensolu	m.co	m, ies	trell	a@e	enso	lum.	com,	cha	milto	on@	enso	lum.	com	, bsin	nmo	ns@e	nsolui	n.co	m
1.,		•	dauthen	ticity of this sam	ple. I a	m aware th	at tampering with or intentionally r	mislabeling	the sa	mple loca	ation,	date	or tim	e of co	llectic	n is co	nsider	ed fra	ud and	may	be gro	unds fo	r legal	action.		_	
	: Bowan Simmon		- Ir)stal /s - n 5 - 0	dTime		BA Awadhu: Banatara)	0	Date			Time					Samo	les requ	uiring th	nerma!	preserv	ration m	ust be	received	on ice the	day th	ey are
130	ed by; (Signatu	ie)		ate 1/2/25 B	09	00	Mysekeller (g) on	zales	0 -	02.23	5	0	90	0	Samples requiring thermal preservation must be received on ice the sampled or received packed in ice at an avg temp above 0 but less subsequent days.												
Mic	ed by: (Signatu	ongol	Pr. r.	1-2.25		(O)	Received by:(Signature)	1	1.	1.1		Time /	<u> 20</u>	0		Received on ice: Y N				. **							
Relinguish	ed by: (Signatu	re)		1.7.25	Time	2400	Receiped by: Righature)	na	Date	<u> 3.25</u>	<u>~</u>	Time	3	2			<u>T1</u>				<u>T2</u>			_	<u>T3</u>		
Kelinquish	ed by: (Signatu	re)	l	ate	Time		Received by: (Signature)		Date			Time					AVO	3 Ter	np °(2	£	_					
	trix: S - Soil, Sd - S									tainer													Ļ				
Note: Sam samples is	ples are discard applicable only	ded 14 days y to those s	s after r amples	esults are repo received by th	rted u e labo	nless othe ratory with	r arrangements are made. Hazi n this COC. The liability of the la	ardous sar aboratory	mples is limi	will be ited to t	retur the ar	ned 1 moun	to clie It paid	nt or d for c	dispo on the	sed of	r at th rt.	e clie	nt exp	ense	. The	report	tor th	ne ana	ysis of 1	ne ab	ove



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Printed: 1/3/2025 8:01:55AM

Envirotech Analytical Laboratory

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:	01/03/25	06:30		Work Order ID:	E501005
Phone:	(972) 371-5200	Date Logged In:	01/02/25	15:08		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	01/09/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Ourier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>c</u>	<u>Journer</u>		
	Il samples received within holding time?	ved amary ses.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, <u>*</u>	temperature. 4	<u>C</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	7/9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	N A		
		so who:	1421	Subcontract Lat	, INA		
Client In	<u>astruction</u>						
L							

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412146

Job Number: 23003-0002

Received: 12/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/23/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/23/24

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

Project Name: General Kehoe #228H

Workorder: E412146

Date Received: 12/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2024 7:45:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01-4'	5
FS03-4'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Donoutoda		
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:		
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/24 08:56		

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01-4'	E412146-01A Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
FS03-4'	E412146-02A Soil	12/17/24	12/19/24	Glass Jar, 2 oz.



Matador Resources, LLC.Project Name:General Kehoe #228H5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/23/2024 8:56:00AM

FS01-4' E412146-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: Rk	ζS		Batch: 2451067
Benzene	ND	0.0250	1		12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1		12/19/24	12/19/24	
Toluene	ND	0.0250	1		12/19/24	12/19/24	
o-Xylene	ND	0.0250	1		12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1		12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1		12/19/24	12/19/24	
Surrogate: Bromofluorobenzene		119 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		12/19/24	12/19/24	
Surrogate: Toluene-d8		111 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: Rk	ζS		Batch: 2451067
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/19/24	12/19/24	
Surrogate: Bromofluorobenzene		119 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		12/19/24	12/19/24	
Surrogate: Toluene-d8		111 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV	V		Batch: 2451073
Diesel Range Organics (C10-C28)	314	25.0	1		12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1		12/19/24	12/19/24	
Surrogate: n-Nonane		113 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: D7	Γ		Batch: 2451074
	576		10		12/19/24	12/19/24	



Matador Resources, LLC.Project Name:General Kehoe #228H5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/23/2024 8:56:00AM

FS03-4' E412146-02

Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RK	S		Batch: 2451067
Benzene	ND	0.0250	1	-	12/19/24	12/19/24	
Ethylbenzene	0.0715	0.0250	1		12/19/24	12/19/24	
Toluene	0.0360	0.0250	1		12/19/24	12/19/24	
o-Xylene	0.444	0.0250	1		12/19/24	12/19/24	
p,m-Xylene	1.51	0.0500	1		12/19/24	12/19/24	
Total Xylenes	1.95	0.0250	1		12/19/24	12/19/24	
Surrogate: Bromofluorobenzene		125 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 % 70-130			12/19/24	12/19/24	
Surrogate: Toluene-d8		118 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS				Batch: 2451067
Gasoline Range Organics (C6-C10)	138	20.0	1		12/19/24	12/19/24	
Surrogate: Bromofluorobenzene		125 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		12/19/24	12/19/24	
Surrogate: Toluene-d8		118 %	70-130		12/19/24	12/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV	•		Batch: 2451073
Diesel Range Organics (C10-C28)	1130	25.0	1		12/19/24	12/19/24	
Oil Range Organics (C28-C36)	161	50.0	1		12/19/24	12/19/24	
Surrogate: n-Nonane		130 %	50-200		12/19/24	12/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2451074
Chloride	2300	200	10)	12/19/24	12/19/24	



Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/23/2024 8:56:00AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	90			12/	23/2024 8:56:00Al	
	Vo	Volatile Organic Compounds by EPA 8260B						Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2451067-BLK1)							Prepared: 12	2/19/24 Ana	lyzed: 12/19/24	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130				
Surrogate: Toluene-d8	0.568		0.500		114	70-130				
LCS (2451067-BS1)							Prepared: 12	2/19/24 Anal	lyzed: 12/19/24	
Benzene	2.38	0.0250	2.50		95.2	70-130				
Ethylbenzene	2.51	0.0250	2.50		100	70-130				
Toluene	2.47	0.0250	2.50		98.9	70-130				
o-Xylene	2.62	0.0250	2.50		105	70-130				
p,m-Xylene	5.23	0.0500	5.00		104	70-130				
Total Xylenes	7.84	0.0250	7.50		105	70-130				
Surrogate: Bromofluorobenzene	0.600		0.500		120	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130				
Surrogate: Toluene-d8	0.559		0.500		112	70-130				
LCS Dup (2451067-BSD1)							Prepared: 12	2/19/24 Anal	lyzed: 12/19/24	
Benzene	2.25	0.0250	2.50		90.1	70-130	5.51	23		
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130	4.31	27		
Toluene	2.35	0.0250	2.50		94.0	70-130	5.08	24		
o-Xylene	2.44	0.0250	2.50		97.7	70-130	6.82	27		
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130	6.57	27		
Total Xylenes	7.34	0.0250	7.50		97.8	70-130	6.65	27		
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130				

0.500

112

70-130



Surrogate: Toluene-d8

0.560

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/23/2024 8:56:00AM

Nonhalogenate	ed Organic	s by EPA	8015D -	- GRO

Analyst: RKS

Prepared: 12/19/24 Analyzed: 12/19/24

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2451067-BLK1)]	Prepared: 1	2/19/24 Anal	yzed: 12/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.568		0.500		114	70-130			
LCS (2451067-BS2)						1	Prepared: 1	2/19/24 Anal	yzed: 12/19/24
Gasoline Range Organics (C6-C10)	60.8	20.0	50.0		122	70-130			
Surrogate: Bromofluorobenzene	0.609		0.500		122	70-130			

0.500

0.500

92.1

116

70-130

70-130

0.241

LCS Dup (2451067-BSD2)

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Gasoline Range Organics (C6-C10)	60.9	20.0	50.0	122	70-130
Surrogate: Bromofluorobenzene	0.625		0.500	125	70-130
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500	92.4	70-130
Surrogate: Toluene-d8	0.570		0.500	114	70-130

0.461

0.582



Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	-
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/2024 8:56:00AM

Dallas TX, 75240		Project Manager	:: As	hley Gioveng	go			12	/23/2024 8:56:00A	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2451073-BLK1)							Prepared: 1	2/19/24 Ana	alyzed: 12/19/24	
riesel Range Organics (C10-C28)	ND	25.0								
vil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	55.1		50.0		110	50-200				
.CS (2451073-BS1)							Prepared: 1	2/19/24 Ana	alyzed: 12/19/24	
riesel Range Organics (C10-C28)	292	25.0	250		117	38-132				
urrogate: n-Nonane	54.0		50.0		108	50-200				
Matrix Spike (2451073-MS1)				Source:	E412146-0	01	Prepared: 1	2/19/24 Ana	alyzed: 12/19/24	
tiesel Range Organics (C10-C28)	520	25.0	250	314	82.2	38-132				
urrogate: n-Nonane	55.1		50.0		110	50-200				
Matrix Spike Dup (2451073-MSD1)				Source:	E412146-0	01	Prepared: 1	2/19/24 Ana	alyzed: 12/19/24	
tiesel Range Organics (C10-C28)	529	25.0	250	314	85.7	38-132	1.63	20		
urrogate: n-Nonane	55.8		50.0		112	50-200				

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	General Kehoe #228H 23003-0002 Ashley Giovengo					Reported: 12/23/2024 8:56:00AM
		Anions	by EPA	300.0/9056	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
Blank (2451074-BLK1)	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

LCS (2451074-BS1)				Prepared: 12/19/24 Analyzed: 12/19/24
Chloride	257	20.0	250	103 90-110
LCS Dup (2451074-BSD1)				Prepared: 12/19/24 Analyzed: 12/19/24
Chloride	257	20.0	250	103 90-110 0.0397 20

20.0

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

l	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/24 08:56

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.



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Chain of Custody

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Page	of

	Client Information			Invoice Information		Lab Use Only					TAT				T	State						
Client: Matador Production Company			C	Company: Ensolum LLC							Number 1D 2			2D	3D Std	NM CO UT TX						
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	Manager: As					ty, State, Zip: Carlsbad NM, 8	8220		-													
	3122 Natio					Phone: 575-988-0055						Ana	lysis	lysis and Me		ethod			EPA Program			
	e, Zip: Carls		88220			Email: agiovengo@ensolum.com														SDWA	CWA	RCRA
	575-988-005		om		M	Miscellaneous:				250										Complian	ce Y	or N
Email: agiovengo@ensolum.com										8015	8015	8015					5			Complian PWSID #	ce i i	J OI J IV
				Sam	ple Informat	ion				O by		8021	3260	300.0	ΣN	S-1X	/letal			1 44310 11		
Time	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb		DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	5
Sampled			Containers			1 1 1			er	NA.	GR	ET B	9	5		TCE	RC	Ž				
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Addition	al Instructio	ons: Plea	ase CC: cbi	urton@e	ensolum.con	n, agiovengo@ensolum.com,	iestrella(@enso	lum	i.con	n, ch	amil	ton@	ens	olun	n.cor	n, bs	immo	ons@en	solum.con	n	
					ole. I am aware th	nat tampering with or intentionally mislab	eling the sa	mple loca	ition,	date	or time	e of co	llection	n is cor	nsidere	ed frau	ıd and ı	may be	grounds fo	r legal action.		
	Israel Estrella																					
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envirotechs envirotechs

Printed: 12/19/2024 12:12:21PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/19/24 (07:45	Work Order ID:	E412146
Phone:	(972) 371-5200	Date Logged In:	12/18/24 1	16:20	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	12/30/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courie	<u>er</u>	
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C			-			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · ·	nois concerca.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	mation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	reservation_					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
-	imples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
				Successful Edg. 1411	•	
Chent In	<u>istruction</u>					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412167

Job Number: 23003-0002

Received: 12/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/31/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/31/24

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

Project Name: General Kehoe #228H

Workorder: E412167

Date Received: 12/20/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/20/2024 8:00:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS04-4'	6
FS05-4'	7
FS02-5'	8
FS06-4'	9
FS07-4'	10
FS09-4'	11
FS10-4'	12
FS11-4'	13
FS12-4'	14
FS13-4'	15
FS14-4'	16
FS15-4'	17
FS16-4'	18
FS17-4'	19
FS18-4'	20
FS19-4'	21
FS20-4'	22
FS21-4'	23
FS22-4'	24
FS23-4'	25

Table of Contents (continued)

	FS24-4'	26
	FS25-4'	27
	FS26-4'	28
Q	C Summary Data	29
	QC - Volatile Organics by EPA 8021B	29
	QC - Nonhalogenated Organics by EPA 8015D - GRO	31
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
	QC - Anions by EPA 300.0/9056A	35
D	efinitions and Notes	37
С	hain of Custody etc.	38

Sample Summary

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/24 09:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04-4'	E412167-01A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS05-4'	E412167-02A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS02-5'	E412167-03A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS06-4'	E412167-04A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS07-4'	E412167-05A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS09-4'	E412167-06A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS10-4'	E412167-07A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS11-4'	E412167-08A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS12-4'	E412167-09A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS13-4'	E412167-10A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS14-4'	E412167-11A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS15-4'	E412167-12A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS16-4'	E412167-13A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS17-4'	E412167-14A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS18-4'	E412167-15A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS19-4'	E412167-16A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS20-4'	E412167-17A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS21-4'	E412167-18A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS22-4'	E412167-19A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS23-4'	E412167-20A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS24-4'	E412167-21A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS25-4'	E412167-22A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS26-4'	E412167-23A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS04-4' E412167-01

		E-112107-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		86.7 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		102 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2451095
Chloride	2410	200	10	12/20/24	12/20/24	

Chloride

Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS05-4'

E412167-02 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: SL Batch: 2451090 mg/kg mg/kg Volatile Organics by EPA 8021B 12/21/24 ND 0.0250 12/20/24 Benzene 1 12/20/24 12/21/24 Ethylbenzene ND 0.0250ND 0.02501 12/20/24 12/21/24 Toluene 1 12/20/24 12/21/24 ND o-Xylene 0.02501 12/20/24 12/21/24 ND 0.0500 p,m-Xylene 12/20/24 12/21/24 1 Total Xylenes ND 0.025012/20/24 12/21/24 94.1 % 70-130 Surrogate: 4-Bromochlorobenzene-PID Analyst: SL mg/kg Batch: 2451090 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 12/21/24 ND 20.0 1 12/20/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 92.5 % 12/20/24 12/21/24 70-130 mg/kg mg/kg Analyst: NV Batch: 2451097 Nonhalogenated Organics by EPA 8015D - DRO/ORO 25.0 12/20/24 12/21/24 86.4 Diesel Range Organics (C10-C28) 12/20/24 12/21/24 Oil Range Organics (C28-C36) ND 50.0 1 12/20/24 12/21/24 Surrogate: n-Nonane 102 % 50-200 Analyst: DT Batch: 2451095 Anions by EPA 300.0/9056A mg/kg mg/kg

200

10

12/20/24

12/20/24

3260



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS02-5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	193	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	54.5	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		105 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2451095
Chloride	3810	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS06-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	0.0778	0.0500	1	12/20/24	12/21/24	
Total Xylenes	0.0778	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	102	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		104 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2451095
imons by Elite Cotton 200011						



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS07-4' E412167-05

	L412107 03				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
ND	0.0250	1	12/20/24	12/21/24	
0.0261	0.0250	1	12/20/24	12/21/24	
ND	0.0250	1	12/20/24	12/21/24	
0.0926	0.0250	1	12/20/24	12/21/24	
0.295	0.0500	1	12/20/24	12/21/24	
0.387	0.0250	1	12/20/24	12/21/24	
	101 %	70-130	12/20/24	12/21/24	
mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
ND	20.0	1	12/20/24	12/21/24	
	94.3 %	70-130	12/20/24	12/21/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2451097
442	25.0	1	12/20/24	12/21/24	
80.1	50.0	1	12/20/24	12/21/24	
	105 %	50-200	12/20/24	12/21/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2451095
1890	200	10	12/20/24	12/20/24	
	mg/kg ND 0.0261 ND 0.0926 0.295 0.387 mg/kg ND mg/kg 442 80.1	Result Reporting Limit mg/kg mg/kg ND 0.0250 0.0261 0.0250 ND 0.0250 0.0926 0.0250 0.295 0.0500 0.387 0.0250 101 % mg/kg ND 20.0 94.3 % mg/kg 442 25.0 80.1 50.0 105 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 0.0261 0.0250 1 ND 0.0250 1 0.0926 0.0250 1 0.295 0.0500 1 0.387 0.0250 1 mg/kg mg/kg Analy ND 20.0 1 94.3 % 70-130 mg/kg mg/kg Analy 442 25.0 1 80.1 50.0 1 105 % 50-200 mg/kg Mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Manalyst: SL ND 0.0250 1 12/20/24 0.0261 0.0250 1 12/20/24 ND 0.0250 1 12/20/24 0.0926 0.0250 1 12/20/24 0.295 0.0500 1 12/20/24 0.387 0.0250 1 12/20/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/20/24 mg/kg mg/kg Analyst: NV 442 25.0 1 12/20/24 80.1 50.0 1 12/20/24 mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/20/24 12/21/24 0.0261 0.0250 1 12/20/24 12/21/24 ND 0.0250 1 12/20/24 12/21/24 0.0926 0.0250 1 12/20/24 12/21/24 0.295 0.0500 1 12/20/24 12/21/24 0.387 0.0250 1 12/20/24 12/21/24 mg/kg mg/kg Analyst: SL ND 12/20/24 12/21/24 mg/kg mg/kg Analyst: SL ND 12/20/24 12/21/24 mg/kg mg/kg Analyst: NV 442 25.0 1 12/20/24 12/21/24 442 25.0 1 12/20/24 12/21/24 80.1 50.0 1 12/20/24 12/21/24 mg/kg mg/kg Analyst: DT 12/20/24 1



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS09-4' E412167-06

		2112107 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL	<u> </u>	Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
oluene	ND	0.0250	1	12/20/24	12/21/24	
-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		97.8 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2451095
Chloride	647	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS10-4' E412167-07

	E-112107 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
ND	0.0250	1	12/20/24	12/21/24	
ND	0.0250	1	12/20/24	12/21/24	
ND	0.0250	1	12/20/24	12/21/24	
ND	0.0250	1	12/20/24	12/21/24	
ND	0.0500	1	12/20/24	12/21/24	
ND	0.0250	1	12/20/24	12/21/24	
	101 %	70-130	12/20/24	12/21/24	
mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
ND	20.0	1	12/20/24	12/21/24	
	92.3 %	70-130	12/20/24	12/21/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
117	25.0	1	12/20/24	12/21/24	
ND	50.0	1	12/20/24	12/21/24	
	99.9 %	50-200	12/20/24	12/21/24	
mg/kg	mg/kg	Analy	st: DT		Batch: 2451095
4220	200	10	12/20/24	12/20/24	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg 117 ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ID1 % mg/kg mg/kg mg/kg ND 20.0 92.3 % mg/kg mg/kg mg/kg ND 50.0 99.9 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg Analy ND 20.0 1 92.3 % 70-130 mg/kg mg/kg Analy 117 25.0 1 ND 50.0 1 99.9 % 50-200 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/20/24 ND 0.0250 1 12/20/24 ND 0.0250 1 12/20/24 ND 0.0500 1 12/20/24 ND 0.0500 1 12/20/24 ND 0.0250 1 12/20/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/20/24 mg/kg mg/kg Analyst: NV 117 25.0 1 12/20/24 ND 50.0 1 12/20/24 ND 50.0 1 12/20/24 MD 50.0 1 12/20/24 MD 50.0 1 12/20/24 Mg/kg Mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/20/24 12/21/24 ND 0.0250 1 12/20/24 12/21/24 ND 0.0250 1 12/20/24 12/21/24 ND 0.0500 1 12/20/24 12/21/24 ND 0.0250 1 12/20/24 12/21/24 ND 0.0250 1 12/20/24 12/21/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/20/24 12/21/24 mg/kg mg/kg Analyst: SL 12/20/24 12/21/24 mg/kg mg/kg Analyst: NV 117 25.0 1 12/20/24 12/21/24 ND 50.0 1 12/20/24 12/21/24 ND 50.0 1 12/20/24 12/21/24 ND 50.0 1 12/20/24 12/21/24 ND



Chloride

Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS11-4'

		E412167-08				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	34.5	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		103 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2451095

200

1430

12/20/24

10

12/20/24



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS12-4' E412167-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		101 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2451095
Chloride	2910	200	10	12/20/24	12/20/24	

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS13-4' E412167-10

		E-12107-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		107 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2451095
Chloride	2030	200	10	12/20/24	12/20/24	



N	Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5	400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
D	Oallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS14-4'

		E412167-11				
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		102 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2451095
Chloride	1100	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS15-4' E412167-12

		2112107 12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
oluene	ND	0.0250	1	12/20/24	12/21/24	
-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		101 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2451095
Chloride	2420	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS16-4'

		E412167-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		98.3 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2451095
Chloride	1940	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS17-4' E412167-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		99.2 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2451095
Chloride	1340	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS18-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		97.3 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2451095
			10		12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS19-4' E412167-16

		E-112107-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		100 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2451095
Chloride	2650	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS20-4'

		E412167-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		104 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2451095
Chloride	1470	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS21-4'

		E412167-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		98.9 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2451095
Chloride	2260	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS22-4' E412167-19

		L412107 17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		98.5 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2451095
Chloride	1740	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS23-4' E412167-20

		E-112107-20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2451090
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
o,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: SL		Batch: 2451090
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451097
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		107 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2451095
Chloride	1050	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS24-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451088
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		89.1 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451088
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451100
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/24/24	
Surrogate: n-Nonane		110 %	50-200	12/20/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2451084
Chloride	1290	200	10	12/20/24	12/20/24	•



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS25-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2451088
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2451088
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2451100
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		105 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2451084
Chloride	1280	200	10	12/20/24	12/20/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

FS26-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2451088
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2451088
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	12/20/24	12/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2451100
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane		110 %	50-200	12/20/24	12/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2451084
Chloride	886	200	10	12/20/24	12/20/24	



Surrogate: 4-Bromochlorobenzene-PID

6.91

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/20249:54:13AM

Dallas TX, 75240		Project Manager:		shley Giovengo)			1	2/31/2024 9:54:13AM			
Volatile Organics by EPA 8021B Analyst: SL												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2451088-BLK1)							Prepared: 1	2/20/24 Ar	nalyzed: 12/21/24			
Benzene	ND	0.0250										
Ethylbenzene	ND	0.0250										
Toluene	ND	0.0250										
o-Xylene	ND	0.0250										
p,m-Xylene	ND	0.0500										
Total Xylenes	ND	0.0250										
Surrogate: 4-Bromochlorobenzene-PID	6.77		8.00		84.7	70-130						
LCS (2451088-BS1)							Prepared: 1	2/20/24 Ar	nalyzed: 12/21/24			
Benzene	5.65	0.0250	5.00		113	70-130						
Ethylbenzene	5.36	0.0250	5.00		107	70-130						
Toluene	5.52	0.0250	5.00		110	70-130						
o-Xylene	5.33	0.0250	5.00		107	70-130						
p,m-Xylene	10.8	0.0500	10.0		108	70-130						
Total Xylenes	16.2	0.0250	15.0		108	70-130						
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.1	70-130						
LCS Dup (2451088-BSD1)							Prepared: 1	2/20/24 Ar	nalyzed: 12/21/24			
Benzene	5.21	0.0250	5.00		104	70-130	7.97	20				
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130	7.64	20				
Toluene	5.11	0.0250	5.00		102	70-130	7.89	20				
o-Xylene	4.94	0.0250	5.00		98.8	70-130	7.57	20				
p,m-Xylene	10.0	0.0500	10.0		100	70-130	7.61	20				
Total Xylenes	15.0	0.0250	15.0		99.9	70-130	7.60	20				

70-130



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Dallas TX, 75240		Project Manager:	As	shley Gioveng	o			12/	31/2024 9:54:13A		
Volatile Organics by EPA 8021B Analyst: SL											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2451090-BLK1)						F	repared: 12	2/20/24 Ana	yzed: 12/21/24		
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	7.29		8.00		91.1	70-130					
LCS (2451090-BS1)						F	repared: 12	2/20/24 Ana	lyzed: 12/21/24		
Benzene	5.30	0.0250	5.00		106	70-130					
Ethylbenzene	5.07	0.0250	5.00		101	70-130					
Toluene	5.19	0.0250	5.00		104	70-130					
o-Xylene	5.06	0.0250	5.00		101	70-130					
p,m-Xylene	10.3	0.0500	10.0		103	70-130					
Total Xylenes	15.4	0.0250	15.0		103	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.2	70-130					
LCS Dup (2451090-BSD1)						F	repared: 12	2/20/24 Ana	lyzed: 12/21/24		
Benzene	5.26	0.0250	5.00		105	70-130	0.829	20			
Ethylbenzene	5.03	0.0250	5.00		101	70-130	0.819	20			
Toluene	5.16	0.0250	5.00		103	70-130	0.759	20			
o-Xylene	5.02	0.0250	5.00		100	70-130	0.836	20			
p,m-Xylene	10.2	0.0500	10.0		102	70-130	0.756	20			
Total Xylenes	15.3	0.0250	15.0		102	70-130	0.782	20			



QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/20249:54:13AM

Analyst: SL

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

Blank (2451088-BLK1)						Prepared: 12	2/20/24 Aı	nalyzed: 12/21/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00	96.7	70-130			
LCS (2451088-BS2)						Prepared: 12	2/20/24 Aı	nalyzed: 12/21/24
Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00	96.6	70-130			
LCS Dup (2451088-BSD2)						Prepared: 12	2/20/24 Aı	nalyzed: 12/21/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	88.4	70-130	4.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00	97.6	70-130			

Analyst: SL

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/20249:54:13AM

Nonhalogenated Organics by EPA 8015D - GRO	
--	--

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

Blank (2451090-BLK1)						Prepared: 12	2/20/24	Analyzed: 12/21/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00	92.4	70-130			
LCS (2451090-BS2)						Prepared: 12	2/20/24	Analyzed: 12/21/24
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00	94.4	70-130			
LCS Dup (2451090-BSD2)						Prepared: 12	2/20/24	Analyzed: 12/21/24
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	88.6	70-130	3.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00	93.9	70-130			



QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/20249:54:13AM

	1 Toject Ivianage	. As	micy Gloveng	30			1.2	33172021 9.31.1311		
Nonha	logenated Or	ganics by	EPA 8015I	O - DRO	/ORO			Analyst: NV		
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
						Prepared: 1	ed: 12/20/24 Analyzed: 12/21/24			
ND	25.0									
ND	50.0									
50.8		50.0		102	50-200					
							Prepared: 12/20/24 Analyzed: 12/21/24			
270	25.0	250		108	38-132					
51.9		50.0		104	50-200					
			Source:	E412167-	06	Prepared: 1	2/20/24 An	alyzed: 12/21/24		
287	25.0	250	ND	115	38-132					
54.3		50.0		109	50-200					
			Source:	E412167-	06	Prepared: 1	2/20/24 An	alyzed: 12/21/24		
271	25.0	250	ND	109	38-132	5.62	20			
51.1		50.0		102	50-200					
	Result mg/kg ND ND 50.8 270 51.9 287 54.3	Nonhalogenated Organization Reporting Limit mg/kg	Nonhalogenated Organics by	Nonhalogenated Organics by EPA 80151 Result	Nonhalogenated Organics by EPA 8015D - DRO Result	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Reporting Limit Level Result Rec Limits mg/kg mg/kg mg/kg mg/kg % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Reporting Limit Level Result Rec Limits RPD mg/kg mg/kg mg/kg mg/kg % % % % % % % % % % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Reporting Limit Level Result Rec Limits RPD Limit RPD Limit Result Rec Limits RPD Limit RPD RPD RPD Limit RPD		

QC Summary Data

Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/31/20249:54:13AM

Dullus 171, 732 10		r roject ivianage.	. 710	iney Groveng	-						
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2451100-BLK1)						2/20/24 Analyzed: 12/20/24					
Diesel Range Organics (C10-C28)	ND	25.0									
Oil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	54.7		50.0		109	50-200					
LCS (2451100-BS1)								Prepared: 12/20/24 Analyzed: 12/20/24			
Diesel Range Organics (C10-C28)	281	25.0	250		112	38-132					
Surrogate: n-Nonane	55.9		50.0		112	50-200					
Matrix Spike (2451100-MS1)				Source:	E412168-	01	Prepared: 12	2/20/24 Analy	zed: 12/20/24		
Diesel Range Organics (C10-C28)	4920	50.0	250	4090	332	38-132			M4		
Surrogate: n-Nonane	55.8		50.0		112	50-200					
Matrix Spike Dup (2451100-MSD1)				Source:	E412168-	01	Prepared: 12	2/20/24 Analy	zed: 12/24/24		
Diesel Range Organics (C10-C28)	4720	50.0	250	4090	250	38-132	4.21	20	M4		
Surrogate: n-Nonane	57.8		50.0		116	50-200					

Analyst: DT

QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Anions by EF	PA 300.0/9056A
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Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2451084-BLK1)							Prepared: 12	2/20/24 Ana	lyzed: 12/20/24
Chloride	ND	20.0							
LCS (2451084-BS1)							Prepared: 12	2/20/24 Ana	lyzed: 12/20/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451084-BSD1)							Prepared: 12	2/20/24 Ana	lyzed: 12/20/24
Chloride	257	20.0	250		103	90-110	0.312	20	



LCS (2451095-BS1)

LCS Dup (2451095-BSD1)

Chloride

Chloride

Prepared: 12/20/24 Analyzed: 12/20/24

Prepared: 12/20/24 Analyzed: 12/20/24

20

90-110

90-110

0.335

102

102

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number		General Kehoe #228H 23003-0002				Reported:		
Dallas TX, 75240		Project Manager: Ashley Giovengo						12/31/2024 9:54:13AM		
		Anions by EPA 300.0/9056A							Analyst: DT	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2451095-BLK1)						I	Prepared: 1	2/20/24 Aı	nalyzed: 12/20/24	
Chloride	ND	20.0								

250

250

255

254

20.0

20.0

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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/24 09:54

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.



Page	of

	Clier	Client Information Invoice Information Lab Use Only TAT				T	Sta	te																
Project:	Matador Prod	Kel	hoe:		Add	dress: 312	nsolum LLC 2 National Parks Hwy			ab W E41					Num		02	1D	2D	3D :	Std	NN K	1 CO U	ТХ
Address:	Manager: Ash 3122 Nation e, Zip: Carls	nal Parks	Hwy		Pho	one: 575-9	o: Carlsbad NM, 8822 988-0055 vengo@ensolum.com			F		-		Ana	lysis	and	Met	hod				DWA	PA Prog	ram RCRA
Phone: 5	575-988-005 giovengo@ei	5				cellaneous:					8015	8015			0						Co	mplia	nce Y	
				Sam	ple Information	on					to by	to by	8021	8260	300.0	NN-	XT - 20	Metal			Ė	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Time Sampled	Date Sampled	Matrix	No. of Container	s		Sample ID		Field	Lab Numb	ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remark	S
1024	12/18/24	soil	1		F	504-	4"		-1							X								
1024		1	1			05-			2							X								
1141						02-			3							X								
1345						06-2	11		4							X								
1350						07			5							X								
1401						09			6							X								
1405						10			7							X								
1408						11			8							X								
1411						12			9							X								
1413.	J	V	1		1	13.	/		10							V								
Addition	al Instructio	ns: Ple	ase CC:	cburton@e	ensolum.com,	agiovengo	@ensolum.com, ies	trella	@enso	olum.	.con	n, ch	amil	ton@	ens	olun	n.cor	n, bs	imm	ions@	ensol	um.co	m	
	pler), attest to the :Israel Estrella			ity of this samp			th or intentionally mislabeling		mple loca	ation, o	date d	or time	of co	llection	n is cor	nsidere	ed frau	d and	may b	e ground	ls for leg	al actio).	
Relinquish	ed by: (Signatur	J.	_ Da	2/19/24	Time 8=15	Received by	(: (Signature)	Date	1-19-2		Time O	815	5			100				in ice at	an avg ter	mp above	d on ice the o	
Mar	ed by: (Signatur	anan	les la	21924	Time 1545	Received/by	/: (Signature)	Date Date	. /q.	24	Time /	600	>			Rece	eived	l on i	ice:	(S)	Use (Only		
Indo	ed by: (Signatur		/ Da	2.19.24	2300 Time	No	DE SOto	Date	-20 7		OB Time	500)		<u>T1 </u>									
	rix: S - Soil, Sd - S		Idge, A - Ar	ueous. O - Oth	er			Con	tainer	Type:	: g - s	glass.	p - r	oolv/r			Ten			1				
						arrangement	ts are made. Hazardous sa						-					_			_	the an	alysis of th	e above

(3

envirotech

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.

Released to Imaging: 3/5/2025 1:32:42 PM

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

	Clier	t Inform	ation		Invoice In	formation			La	b Us	se On	nly				TAT			Sta	ite
	latador Prod				Company: Ensolum LLC Lab WO# Job Number 1D 2D 3D Std NM CO U				T TX											
	Genera			22814	Address: 3122 National Parks Hwy E412167 23003-2002															
	lanager: Ash				City, State, Zip: Carlsb		-	_												
	3122 Nation				Phone: 575-988-005		-				Ana	lysis	and	Met	hod				PA Prog	ram
	e, Zip: Carlsb 75-988-0055		88220		Email: agiovengo@e	ensolum.com	-											SDWA	CWA	RCRA
	giovengo@er		om		Miscellaneous:			100	10									Complia	nce \	orl
nun. u	iovengo <u>e</u> ei	130101111.0	0111					8015	8015			0			<u>v</u>			PWSID #		10111
				Sample Inf	ormation			30 by	30 by	802	8260	300	NN-	15 - T)	Meta					
Time ampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field Filter	Lab ımber	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remar	Page
417	12/18/24	Soil	1		FS14-41		11						X							
420					15 1	1	2						X							
422					14		3						X							
425					17	1	4						X							
431					18		15						X							
433					19	1	6						X							
1434					20		7						X							
1440					21		18						X							
1443.					22	ı	9						X							
1445	1	-1	V		¥ 23. ¥		0						X							
Addition	al Instruction	ns: Plea	se CC: cb	urton@ensolu	m.com, agiovengo@ensol	um.com, iestrella@ei	rsolui	m.co	m, ch	amil	lton@	@ens	olun	n.cor	n, bsi	mmon	s@ens	solum.co	m	

Relinquished by: (Signature)
Whichefte Gonzales Lab Use Only 1545 Received on ice: Received by: (Signature) Relinguished by: (Signature) 12-20-24 0800 Relinquished by: (Signature) Received by: (Signature) AVG Temp °C

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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

	Clie	nt Inform	ation			Invo	ice Information	n Lab Use Only				TAT					Si	tate						
	Matador Proc					mpany: Enso	lum LLC		La	ab V	NO#			Job I	Num	ber		1D	2D	3D St	d	NM CO	UT -	TX
Project:	Genero	u Ke	hoe	#228	Ad	dress: 3122 N	National Parks Hwy		E	4	12	16:	7	230	203	-000	2			×	-	1		
Project N	Manager: As	hley Giov	engo		Cit	y, State, Zip:	Carlsbad NM, 8822	0													_			
Address:	3122 Natio	nal Parks	Hwy		Pho	one: 575-98	8-0055			T				Ana	lysis	and	Met	hod				EPA Pro	gram	1
City, Stat	e, Zip: Carls	bad NM,	88220		En	nail: agioven	go@ensolum.com													SD	WA CW.		RCRA	
-	575-988-005					cellaneous:																	+	110.01
	giovengo@e		om								ID.	10									Con	pliance	Y	or N
											801	801			0			5			-	SID#	-	01 11
•				Sami	ole Informati	on		-			yd C	yd C	3021	260	300.	Σ×	XT-	leta			-		-	
Time		2000	No. of					e d	Lab		/ORC	/DRC	by 8	by 8	ride	- 50	1005	8 8	1			Rema	rks	
Sampled	Date Sampled	Matrix	Containers			Sample ID		Field	Lab Numb	er	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					1100	
1447	12/18/24	Soil	1		.5	5 24-	41		21							V								
1448	1	1				1 25			22							V				T		*		
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Addition	al Instructio	ns: Plea	ase CC: cl	ourton@e	nsolum.com	agiovengo@	ensolum.com, iest	rella@	@ensol	lum	.com	n, ch	amil	ton@	ens	olun	n.cor	n, bsi	immo	ons@e	nsolur	n.com		
I. (field sam	pler), attest to the	e validity and	authenticit	of this samp	le. I am aware tha	t tampering with o	r intentionally mislabeling	the sar	nole locat	tion	date	or time	of co	llection	a le co	nsider	ed frau	d and -	nay he	grounds	for lagal	action		
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	ed by: (Signatu		Date		Time	Received by:46	ignaturre) s	Date		T	Time					Sampl	es requ	iring the	rmal pr	eservation	must be	received on ice th	e day th	ev are
		3	17	119/14	8:15	Vigne	ignature) e Gonzales		192	4	6	818	7			sampl	ed or re	ceived p				above 0 but less	100000	
Relinguish	ed by: (Signatu	re)	Date	1114	Time	Received by: (S		Date	-110-	1	Time		_			Lab Use Only								
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Sample Ma	trix: 5 - Soil, Sd - S	Solid, Sg - Slu	dge, A - Aqu	eous, O - Othe	er	1	-	Cont	tainer T	ype	: g - g	glass.	p - r	oly/r	olasti					- VOA			-	
						arrangements a	re made. Hazardous sa														rt for th	e analysis of	the ah	ove
samples is	applicable only	to those s	amples rec	eived by the	laboratory with	this COC. The lia	bility of the laboratory	is limi	ited to th	he ar	moun	t paid	for o	n the	repo	rt.								

Printed: 12/20/2024 10:11:30AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

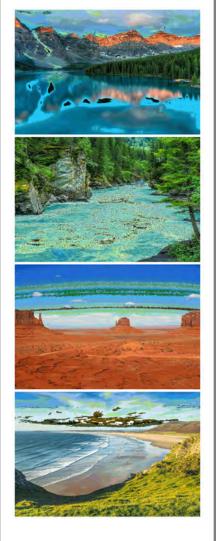
Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/20/24	08:00		Work Order ID:	E412167
Phone:	(972) 371-5200	Date Logged In:	12/19/24	16:28		Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	12/31/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	on the coc	Yes Yes	c : c			
	e COC complete, i.e., signatures, dates/times, reques	eted analyses?	Yes	Carrier: <u>C</u>	ourier		
	Il samples received within holding time?	ned analyses:	Yes				
3. Were a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		103			Comments	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 1	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers')	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	iers conected:	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	illiation.	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	ru?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	• NI A		
		SO WIIO:	INA	Subcontract Lab	; NA		
Client Ir	<u>istruction</u>						

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412180

Job Number: 23003-0002

Received: 12/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/30/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/30/24

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

Project Name: General Kehoe #228H

Workorder: E412180

Date Received: 12/23/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2024 8:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS08-5'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

_				
ſ	Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/24 16:02

Client Sample ID	Lab Sample ID Ma	atrix	Sampled	Received	Container
FS08-5'	E412180-01A S	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

FS08-5' E412180-01

	D 1	Reporting		D 1		N .
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: SL		Batch: 2452019
Benzene	ND	0.0250	1	12/23/24	12/24/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/24/24	
Toluene	ND	0.0250	1	12/23/24	12/24/24	
o-Xylene	ND	0.0250	1	12/23/24	12/24/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/24/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/24/24	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	12/23/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2452019
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	12/23/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2452018
Diesel Range Organics (C10-C28)	209	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	56.6	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		107 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2452015
Chloride	5520	200	10	12/23/24	12/23/24	



Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

Dallas TX, 75240		Project Manager:		shley Gioveng	go			12	2/30/2024 4:02:36PM
		Volatile O	rganics b	y EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2452019-BLK1)							Prepared: 1	2/23/24 An	alyzed: 12/24/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			
LCS (2452019-BS1)							Prepared: 1	2/23/24 An	alyzed: 12/24/24
Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.87	0.0250	5.00		97.3	70-130			
o,m-Xylene	9.88	0.0500	10.0		98.8	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			
LCS Dup (2452019-BSD1)							Prepared: 1	2/23/24 An	alyzed: 12/24/24
Benzene	5.17	0.0250	5.00		103	70-130	1.36	20	
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130	1.11	20	
Toluene	5.06	0.0250	5.00		101	70-130	1.27	20	
o-Xylene	4.92	0.0250	5.00		98.4	70-130	1.17	20	
o,m-Xylene	9.99	0.0500	10.0		99.9	70-130	1.05	20	
Total Xylenes	14.9	0.0250	15.0		99.4	70-130	1.09	20	
rotal 11, lelles									



Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/30/2024 4:02:36PM

Nonhalogenated	Organics	by EPA 8015D	- GRO
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Analyst: SL

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

Blank (2452019-BLK1)						Prepared: 12	2/23/24	Analyzed: 12/24/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00	92.5	70-130			
LCS (2452019-BS2)						Prepared: 12	2/23/24	Analyzed: 12/24/24
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00	94.6	70-130			
LCS Dup (2452019-BSD2)						Prepared: 12	2/23/24	Analyzed: 12/24/24
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	85.4	70-130	1.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00	93.1	70-130			



Matador Resources, LLC.Project Name:General Kehoe #228HReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo12/30/2024 4:02:36PM

		Analyst: NV
RPD	RPD Limit	
%	%	Notes
repared:	12/23/24	Analyzed: 12/23/24
repared:	12/23/24	Analyzed: 12/23/24
repared:	12/23/24	Analyzed: 12/23/24
repared:	12/23/24	Analyzed: 12/23/24
0.372	20	
r	% repared: repared:	RPD Limit % % % repared: 12/23/24 repared: 12/23/24 repared: 12/23/24 repared: 12/23/24



Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager		General Kehoe 23003-0002 Ashley Gioveng				12	Reported: 2/30/2024 4:02:36PM
		Anions	by EPA	300.0/9056	4				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes

				70	70	70	70	riotes
						Prepared: 12	2/23/24 Ana	lyzed: 12/23/24
ND	20.0							
						Prepared: 12	2/23/24 Ana	lyzed: 12/23/24
253	20.0	250		101	90-110			
						Prepared: 12	2/23/24 Ana	lyzed: 12/23/24
255	20.0	250		102	90-110	0.872	20	
	ND 253	ND 20.0 253 20.0	ND 20.0 253 20.0 250	ND 20.0 253 20.0 250	ND 20.0 253 20.0 250 101	ND 20.0 253 20.0 250 101 90-110	Prepared: 12 ND 20.0 Prepared: 12 253 20.0 250 101 90-110 Prepared: 12	Prepared: 12/23/24 Ana ND 20.0 Prepared: 12/23/24 Ana 253 20.0 250 101 90-110 Prepared: 12/23/24 Ana Prepared: 12/23/24 Ana

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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/24 16:02

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Page	-	of	Λ
1 050		OI	

	Clie	nt Inform	ation			Invoice Information	on				Lab l	Jse O	nly				T	AT			State	e
Client: N	Natador Prod				Co	mpany: Ensolum LLC		L	ab V	VO#		Job	Num	ber		1D	2D	3D	Std	NM	co UT	TX
Project:		eval		e#20	Ac Ac	dress: 3122 National Parks	Hwy	F	E41	1219	30		003		2			-	X	X	0.	1/1
Project N	Aanager: As	hley Giov	engo		Cit	y, State, Zip: Carlsbad NM,	88220		-	tosic	, ,	10-2							-			
Address:	3122 Natio	nal Parks	Hwy		Ph	one: 575-988-0055			Γ			An	alysis	and	Met	thod				EP	A Progra	am
City, Stat	e, Zip: Carls	bad NM,	88220		Er	nail: agiovengo@ensolum	.com						T							SDWA	CWA	RCRA
Phone: !	575-988-005	5			10000	cellaneous:																THE I
Email: a	giovengo@e	nsolum.c	om							10	10	1								Complianc	e Y	or N
_										801	801	1	0			S			1	PWSID#		0, 1,
				Samı	ple Informati	on				yd O	O by	3260	300.	Σ	5-TX	Meta						
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	per	DRO/ORO by 8015	GRO/DRO by 8015 BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
1005	12/19/2	4 5011	1		7	508-51		1						X								
												-										
							4		1													
										4	+	-										
										4	-	-										
							4		1	+	+	-										
										+		-										
Addition	al Instructio	ns: Plea	se CC: cb	urton@e	nsolum.com.	agiovengo@ensolum.com	iestrella	@enso	lum	com	cham	ilton	Mens	olun	n cor	n he	imm	ons@	lons	olum com		
			authenticity	of this sampl	a Lam awara tha	t tamporing with an intentionally mid-	halian Maria	ands to a	***	1												
Sampled by:	Israel Estrella	1 Jan	ma 1	7	31, 31, 31, 31, 31, 31, 31, 31, 31, 31,	t comporting with or intentionally male	being the sa	mpie ioca	ition, t	uate or	time or c	onecu	n is co	nsidere	edirat	id and	may be	e groun	as for	legal action.		
Relinguish	ed by: (Signatur	re)	Date		Time	Received by: (Signature)	Date		Īт	Time	_	T		Sampl	es requ	iring th	ermal n	reservat	ion mu	st be received o	on ice the da	v they are
_	1 15	X	12	120/24	7:20	Wielaste, Games	Per 1	1-20-1	4	1-	770									temp above 0		
Relinquish	ed by: (Signatur	re)	Date	1-1	Time	Received by: (Signature)	Date		T	Time	100	+		subser	nuent d	lavs		la	hlle	o Only		
MA.	P. M. C		c. 1).	16-24	11010	L I I M	1.2	. 2.0.	2.4	17	40			Dan				La),	e Only		
Relinguish	ed by: (Signatur	re)	Date	1	Time	Received by: (Signature)	Date		7	Time	00	+		Reci	eivec	on	ce:	U	/ N			
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Relinquish	ed by: (Signatur	re)	Date	20.04	Time	Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date	-072	T	Time	,,,,,	1		11				<u>T2</u>			T3	
	d. c. c. v e. :			45					. 1					AVG	Ten	np °C		_				
	rix: S - Soil, Sd - S						Con	tainer T	ype:	g - gla	ass, p -	poly/	plasti	C, ag	- dilli	DEI BI	d55, V	- VUI	A			
samples is	applicable only	to those sa	imples rece	ived by the	laboratory with	arrangements are made. Hazardo this COC. The liability of the labo	ous samples ratory is lim	will be r ited to th	eturr he an	ned to a	client o paid for	on the	sed of	at th	e clier	nt exp	ense.	The re	port f	or the analy	sis of the	above

envirotechs
envirotechs
envirotechs

envirotech Inc.

Printed: 12/23/2024 9:42:31AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/23/24 0	08:30	Work Order ID:	E412180
Phone:	(972) 371-5200	Date Logged In:	12/23/24 0	9:38	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	01/02/25 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Couri	<u>ier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
	ample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C			_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	el					
20. Were 1	field sample labels filled out with the minimum info	ormation:				
Sa	ample ID?		Yes			
	ate/Time Collected?		Yes	<u> </u>		
	ollectors name?		Yes			
	reservation		NT.			
	the COC or field labels indicate the samples were property of the company of the	reserved?	No			
	umple(s) correctly preserved? filteration required and/or requested for dissolved n	antolo?	NA No			
	•	ictais:	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laborato	•	No			
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab: NA	A	
Client In	struction					

Date

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



APPENDIX E

Email Correspondence

From: Hamlet, Robert, EMNRD

To: Ashley Giovengo

Cc: Jason Touchet; arsenio.jones@matadorresources.com; Cole Burton; Chad Hamilton; Bratcher, Michael, EMNRD;

Wells, Shelly, EMNRD

Subject: (Extension Approval) - General Kehoe 228H - Incident Number nAPP2420927733

Date: Friday, October 18, 2024 3:17:24 PM

Attachments: <u>image006.png</u>

image007.png image008.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2420927733

Ashley,

Your request for a 90 day extension to **January 16th, 2025** is approved. Please include this email 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: Friday, October 18, 2024 3:02 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Extension Request - General Kehoe 228H - Incident Number

nAPP2420927733

From: Ashley Giovengo agiovengo@ensolum.com>

Sent: Friday, October 18, 2024 2:58 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >; Jason Touchet

<iason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>

Cc: Cole Burton < cburton@ensolum.com >; Chad Hamilton < chamilton@ensolum.com >

Subject: [EXTERNAL] Extension Request - General Kehoe 228H - Incident Number nAPP2420927733

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

All.

Matador Production Company (Matador) is requesting an extension for the current deadline of October 24, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the General Kehoe 228H (Site) (Incident Number nAPP2420927733). The release occurred on July 26, 2024, and 71 barrels (bbls) of produced water were released at the Site; approximately 20 bbls were recovered. In order to establish depth to water (DTW) within a half-mile radius of the Site, a WR-07 Permit and WD-08 permit were submitted to the New Mexico Office of the State Engineer (NMOSE), and we are currently waiting on approval from NMOSE to complete the soil boring. Once the soil boring has been completed and allowed to equilibrate for 72-hours, Ensolum personnel with measure the DTW with an oil/water interface probe. The DTW measurement will be recorded on a WR-20 Form and mailed to the NMOSE office in Roswell, New Mexico. Matador will submit a remediation work plan or closure report upon completing excavation and confirmation sampling of the subject matter release. Matador respectfully requests a 90-day extension until January 22, 2025. Please let me know if you have any further questions regarding this site.

Thanks,



"Your authenticity is your superpower." - Unknown

From: <u>Hamlet, Robert, EMNRD</u>

To: Ashley Giovengo; Jason Touchet; Arsenio Jones

Cc: Cole Burton; Chad Hamilton; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - Matador Production Company - General Kehoe #228H - nAPP2420927733

Date: Wednesday, January 15, 2025 1:53:28 PM

Attachments: <u>image006.png</u> image007.png

image007.png image008.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2420927733

Ashley,

Your request for a 90-day extension to **April 15th, 2025** 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@emnrd.nm.gov

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



From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Wednesday, January 15, 2025 12:05 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones

<arsenio.jones@matadorresources.com>

Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>

Subject: [EXTERNAL] Extension Request - Matador Production Company - General Kehoe #228H - nAPP2420927733

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

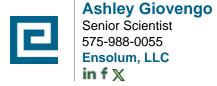
Good Morning,

Matador Production Company (Matador) is requesting an extension of the current deadline of January 16, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the General Kehoe 228H 13 (Site) (Incident Number nAPP2420927733). The release occurred on July 26, 2024, and approximately 71 barrels (bbls) of produced water were released in a pipeline ROW; 20 bbls were recovered. The release impacted an area approximately 4,395 square feet (sq. ft.) in size on Private Land. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, C-4901 POD3. The soil boring was completed by Matador for the purpose of establishing depth to water within a half mile radius of the Site. Soil Boring C-4901 is located approximately 0.28 miles west of the Site and has a reported depth to groundwater of 52 feet below ground surface (bgs) and a total depth of 55 feet bgs. A desktop review for potential site receptors has been completed for this Site and the site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a 100-year flood plain located approximately 0.43 miles southeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000 mg/kg TPH - Gasoline Range Organics (GRO) and TPH - Diesel Range Organics (DRO), 2,500 mg/kg Total TPH and 10,000 mg/kg chloride. Ensolum personnel oversaw the excavation of the subject matter release beginning on December 17, 2024, through December 20, 2024, and a total of 26 composite confirmation floor samples were collected from the floor of the excavation; All 26 confirmation floor samples were below the Site Closure Criteria at a depth of 4 feet to 5 feet bgs. A total of 3 confirmation soil samples were collected from the sidewalls of the excavation and laboratory analytical results indicated that sidewall soil samples SW01, SW02 and SW04 were all in compliance with the strictest Closure Criteria at depths ranging from ground surface to 4 feet bgs (see Tables 3 and 4 and Figure 4).

Prior to beginning the excavation, Ensolum personnel successfully completed lateral delineation soil sampling at ground surface (see Table 1, Figure 2) in accordance with the strictest Closure Criteria, however concentrations of naturally occurring background chloride were discovered in the area immediately surrounding the subject matter release during excavation and confirmation soil sampling activities. Ensolum personnel began an investigation into naturally occurring background chloride at the Site on December 30, 2024, through December 31, 2024, and 4 boreholes (BG01 through BG04) were advanced via hand auger in undisturbed, vegetated areas to a terminal depth of 6 feet bgs (see Table 2, Figure 3). Laboratory analytical results indicated that the samples collected in background sample locations (BH01 through BG04) were below 600 mg/kg chloride at ground surface (0 ft bgs), however chloride levels started increasing in concentration at a depth of 1-foot bgs in every borehole. The highest concentrations of naturally occurring background chloride were observed between 1-foot bgs and 3 feet bgs in boreholes (BG01 through BG04) with the highest concentration (1,980 mg/kg chloride) in sample location BG04 @2 ft bgs.

Matador would like to request a second 90-day extension until March 12, 2025, in order to submit a background chloride variance via NMOCD web portal. Matador intends to submit a remediation work plan or closure report upon receiving guidance from the NMOCD with regards to vertical delineation soil sampling and confirmation soil sampling at the Site. Please feel free to reach out with any additional questions regarding the data attached.

Thanks,



"Your authenticity is your superpower." - Unknown

Attachments:

From: <u>Hamlet, Robert, EMNRD</u>

To: Chad Hamilton; jason.touchet@matadorresources.com; Arsenio Jones; Csnow@matadorresources.com

Cc: <u>Ashley Giovengo</u>; <u>Dan Moir</u>; <u>Bratcher, Michael, EMNRD</u>

Subject: (Variance Approval) - Matador_General Kehoe 228H_nAPP2420927733

Date: Friday, January 31, 2025 8:32:12 AM

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Chad,

The variance request is approved for tested background chlorides numbers. Please make sure the background numbers appear somewhere on the table. Additionally, include this email in the Remediation Closure Report and include a brief discussion in the executive summary for the reviewer. Regards

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov

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



From: Chad Hamilton <chamilton@ensolum.com>

Sent: Friday, January 31, 2025 7:25 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; jason.touchet@matadorresources.com; Arsenio Jones

<arsenio.jones@matadorresources.com>; Csnow@matadorresources.com

Cc: Ashley Giovengo <agiovengo@ensolum.com>; Dan Moir <dmoir@ensolum.com>

Subject: [EXTERNAL] Matador_General Kehoe 228H_nAPP2420927733_Chloride Variance Request

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

Sample Point	0'	1'	2'	3'	4'	5'	6'
BG01	<20.0	395	722	744	495	457	625
BG02	137	1,950	1,840	1,640	948	964	1,040
BG03	538	525	833	1,040	590	583	611
BG04	<20.0	1,800	1,980	1,740	759	673	744
Average							

chloride/background levels	338	1,168	1,344	1,291	698	669	755
at depth in mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Hello,

Matador Production Company (Matador) is requesting a background chloride variance at the General Kehoe 228H (Site) (Incident Number nAPP2420927733). On July 26, 2024, corrosion on a production line caused a leak resulting in the release of approximately 71 barrels (bbls) of produced water; 20 bbls were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on Jul 27, 2024, via web portal. The release occurred in a pipeline right of way and adjoining pasture area.

A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well C-4901 POD1 with a reported depth to groundwater measurement of 52 feet below ground surface (bgs); the well is 0.27 miles from the Site and the date of the last recorded measurement was on December 2, 2024. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The closest significant watercourse is a 100 Year Flood Plain located approximately 2,317 feet southeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Figure 1 depicts sensitive receptors applicable to the Site. Based on the results of the desktop review and a readjustment of the approved chloride variance request, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/ORO and 10,000 mg/kg chloride.

On December 30, 2024, and December 31, 2024, Ensolum personnel advanced four boreholes (BG01 through BG04, Figure 3) from areas that had not been previously disturbed by oil and gas operations at depths ranging from ground surface to 6 feet bgs at the Site (See Figure 2). Laboratory analytical results indicated the presence of naturally occurring chloride concentrations in soil exceeding 600 parts per million (ppm) (also measured as mg/kg) in all four of the undisturbed areas, with a maximum chloride concentration of 1,980 mg/kg detected at BG04. When detected, the elevated concentrations generally occurred below the ground surface beginning at 0.5 feet bgs. (See Table 2).

Naturally occurring chloride concentrations ranging from <20.0 mg/kg to 1,980 mg/kg off pad has been documented. When reviewing onsite pothole analytical data, demarcations of chloride impacts versus naturally occurring concentrations can be observed through correlation of TPH impacts and/or a precipitous drop in chloride concentrations with often times an increase that does not appear to be related to the release.

Based on assessments of naturally occurring chloride concentrations beneath and adjacent to the Site, Ensolum, on behalf of Matador, is proposing an adjusted Closure Criteria and sampling variance be considered for remediation of the Site, which includes the following:

 Vertical delineation variance of chlorides that reduce to a concentration below 1,000 mg/kg before increasing again; delineation sample locations BH01, BH04, and BH05 show a clear decrease in chloride concentration in relation to impacts resulting from the release before increasing again due to background chlorides. In sample location BH01 clear impacts can be seen in the top 6 feet below ground surface (bgs) chloride concentrations continue to decrease and meet the reclamation standard of 100 mg/kg for TPH and 600 mg/kg for chlorides then increases again to well above the 100/600 criteria. This increase is indicative of the existing background chlorides found in background samples BG01 through BG04. Sample Location BH04 also shows a characteristic decrease in chloride concentration associated with impacts to a depth of 10 feet bgs before the chloride concentrations begin to increase again. Sample location BH05 reduces to the meet the 100/600 criteria at 9 feet bgs but increases again to above 1,000 mg/kg at 10 feet bgs. The variation of chloride concentrations at depth show a clear correlation with existing background concentrations found in background sample locations.

• Sidewall confirmation samples will be collected on a frequency of one composite sample for every 200 square feet of sidewall and will be compared to the sample lateral extent concentration of 1,267 mg/kg for chloride and 100 mg/kg for TPH. The outlying sample areas from the top (ground surface) and the lower range (4 feet bgs) of the sidewalls of the excavation are not representative of the sample area taken from the sidewalls. Ground surface concentrations are not included in the average for the sidewall as the top 0.5 feet are not generally included in the sample collection. In addition the concentrations found at 4 feet bgs were not included as they are more representative of those found in the floor of the excavation. Sidewall confirmation samples will also be used to define the lateral extent of the release area in lieu of surface lateral delineation.

Matador is requesting this background chloride and sampling variance in order to remediate/excavate soil in the release area that exceed naturally occurring chloride concentrations. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the regional geology with documented elevated chloride levels at or near the Site, Matador believes this variance request will provide equal or better protection of public health and the environment. Matador respectfully requests approval for this variance request associated with Incident Number (nAPP2420927733).

Thanks,



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

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 367787

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	367787
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source		
Please answer all the questions in this group.		
Site Name	General Kehoe 228H	
Date Release Discovered	07/26/2024	
Surface Owner	Private	

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	or 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: Corrosion Flow Line - Production Produced Water Released: 43 BBL Recovered 20 BBL Lost: 23 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.

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

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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 2

Action 367787

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	367787
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

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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**

ACKNOWLEDGMENTS

Action 367787

ACKNOWLEDGMENTS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	367787
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
✓	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
✓	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.
V	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
V	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

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 367787

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	367787
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	7/27/2024

2
3667
20
50.8
70.8

need to populate or select

District III

<u>District I</u> 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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 368078

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	368078
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source		
Please answer all the questions in this group.		
Site Name	General Kehoe 228H	
Date Release Discovered	07/26/2024	
Surface Owner	Private	

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: Corrosion Flow Line - Production Produced Water Released: 71 BBL Recovered: 20 BBL Lost: 51 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.	

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, Page 2

Action 368078

QUESTI	ONS (continued)	
Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre	OGRID: 228937 Action Number:	
Dallas, TX 75240	368078 Action Type: [C-141] Initial C-141 (C-141-v-Initial)	
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 s	afety 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.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com	

Date: 07/29/2024

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

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, Page 3

Action 368078

QUESTIONS	(continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	368078
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
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	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	No	
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.		

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

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 368078

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	368078
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created E	By Condition	Condition Date
rhamle	t None	7/31/2024

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 411272

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411272
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2420927733			
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986			
Incident Type	Produced Water Release			
Incident Status	Initial C-141 Approved			
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H			
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery			

Location of Release Source			
Site Name	General Kehoe 228H		
Date Release Discovered	07/26/2024		
Surface Owner	Private		

Sampling Event General Information					
Please answer all the questions in this group.					
What is the sampling surface area in square feet	5,026				
What is the estimated number of samples that will be gathered	41				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/16/2024				
Time sampling will commence	09:00 AM				
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056				
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572				

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

CONDITIONS

Action 411272

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411272
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

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 411290

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411290
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name General Kehoe 228H	
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/17/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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

CONDITIONS

Action 411290

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411290
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

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 411298

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411298
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name General Kehoe 228H	
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

General Information Phone: (505) 629-6116

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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

CONDITIONS

Action 411298

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411298
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

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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

Action 411304

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411304
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,026	
What is the estimated number of samples that will be gathered	41	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056	
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572	

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

CONDITIONS

Action 411304

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411304
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

Phone: (505) 629-6116
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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

Action 411310

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411310
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,026	
What is the estimated number of samples that will be gathered	41	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056	
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572	

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

CONDITIONS

Action 411310

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411310
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

Phone: (505) 629-6116
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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

Action 411314

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411314
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name General Kehoe 228H	
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,026	
What is the estimated number of samples that will be gathered	41	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/23/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056	
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572	

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

CONDITIONS

Action 411314

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	411314
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/12/2024

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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

Action 416654

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	416654
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name General Kehoe 228H	
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	600	
What is the estimated number of samples that will be gathered	3	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056	
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572	

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

CONDITIONS

Action 416654

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	416654
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/2/2025

Phone: (505) 629-6116
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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

Action 428462

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	428462
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,026	
What is the estimated number of samples that will be gathered	41	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/07/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Please contact Isreal Estrella (575) 291-9537	
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572	

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

CONDITIONS

Action 428462

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	428462
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/5/2025

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 430098

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	430098
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	800	
What is the estimated number of samples that will be gathered	4	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Chad Hamilton (940) 923-0072	
Please provide any information necessary for navigation to sampling site	32.2537958,-104.0519572	

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

CONDITIONS

Action 430098

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	430098
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/10/2025

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 438671

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

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: Corrosion Flow Line - Production Produced Water Released: 71 BBL Recovered: 20 BBL Lost: 51 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
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.	

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 2

Action 438671

QUESTIONS (con	tinuea)
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QUESTI	ONS (continued)
Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre Dallas, TX 75240	Action Number: 438671
Dallas, 1X 73240	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 03/04/2025

Phone: (505) 629-6116 Online Phone Directory $\underline{https://www.emnrd.nm.gov/ocd/contact-us}$

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 438671

QUESTIONS (continued)

OGRID: Operator MATADOR PRODUCTION COMPANY 228937 One Lincoln Centre Action Number: Dallas, TX 75240 438671 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	11600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	23268	
GRO+DRO (EPA SW-846 Method 8015M)	20158	
BTEX (EPA SW-846 Method 8021B or 8260B)	78	
Benzene (EPA SW-846 Method 8021B or 8260B)	4	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	12/17/2024	
On what date will (or did) the final sampling or liner inspection occur	02/13/2025	
On what date will (or was) the remediation complete(d)	02/13/2025	
What is the estimated surface area (in square feet) that will be reclaimed	5185	
What is the estimated volume (in cubic yards) that will be reclaimed	1368	
What is the estimated surface area (in square feet) that will be remediated	5185	
What is the estimated volume (in cubic yards) that will be remediated	1386	
These estimated dates and measurements are recognized to be the best guess or calculation at the	e time of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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 4

Action 438671

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(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 & Lea Land LLC, Hobbs, NM	
(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.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 03/04/2025

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.

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 438671

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 438671

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	430098
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	5185	
What was the total volume (cubic yards) remediated	1368	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	5185	
What was the total volume (in cubic yards) reclaimed	1368	
Summarize any additional remediation activities not included by answers (above)	N/A	

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: EHS Field Rep
Email: jason.touchet@matadorresources.com
Date: 03/04/2025

General Information Phone: (505) 629-6116

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QUESTIONS, Page 7

Action 438671

QUESTIONS (continued)

Operator:	OGRID:
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One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Action 438671

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	438671
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Created E	y Condition	Condition Date
rhamle	We have received your Remediation Closure Report for Incident #NAPP2420927733 GENERAL KEHOE 228H, thank you. This Remediation Closure Report is approved.	3/5/2025