



Remediation Summary and Closure Request

Matador Resources Company

Dr K South Tank Battery

Eddy County, New Mexico

Unit Letter "M", Section 24, Township 23 South, Range 27 East

Latitude 32.285307 North, Longitude 104.149520 West

NMOCD Incident # NAPP2126643846

Prepared For:

Matador Resources Company
5400 LBJ Freeway Ste 1500
Dallas, TX 75240

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

October 2025

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a horizontal line.

Daniel Dominguez
Environmental Director
ddominguez@hungry-horse.com

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HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter M (SW/SW), Section 24, Township 23 South, Range 27 East, approximately three miles West of Loving, in Eddy County, New Mexico. The site is located on Private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The location is an active production pad; Latitude 32.285307 North, Longitude 104.149520 West. The NMOCD Form C-141 indicated that on September 22, 2021 approximately 16.5 bbls of produced water were released due to corrosion on a T joint. A crew was dispatched to the release site to manage the release. No fluid was recovered. In 2021 the release area was delineated by Vertex. In 2023 the area was delineated, excavated, lined, and backfilled by Talon. However, closure was denied citing the site was not approved for a liner installation. Vertex and Talon sampling analytical data provided in Attachment VI. Previously submitted information is available on the NMOCD Permitting Portal.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a high Karst designated area. Depth to groundwater information is provided as Attachment III and the results are depicted on Figures 2 and 3.

Three wells are located within a half mile radius of the location. However, as the site is located in a high Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of remediation. Web Soil Survey indicates the area is located in the Karro loam soil type comprised of loam soil with 0 to 1 percent slopes. Landowner approved seed mix will be utilized for seeding after these completed remediation activities. Karst, Wetland, and Soil Maps are provided as Attachment I.



Remediation Activities:

As per NMOCD closure denial, the release area was re-excavated, and the liner removed and disposed. Matador then contacted Hungry Horse to review the denied closure at the Dr K South Tank Battery. Hungry Horse mobilized on site with Matador personnel on September 4, 2025 to determine next steps. At this time the excavation was approximately four and half feet deep with a deeper 'U' shaped area that extended to approximately six feet bgs. The excavated area is depicted in Figure 4.

On September 5, 2025, Hungry Horse personnel arrived on location to delineate the excavation. During delineation, hand augered sample bores were advanced throughout the 'U' shaped excavated area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. During the advancement of hand augered sample bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit. The shallower four and half foot deep area in the middle of the 'U' shape was also field tested. Field testing indicated chloride concentrations were below the NMOCD Closure Criteria.

Based on field observations and field test data, four representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, all at nine feet bgs, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On September 17 and 18, 2025, the 'U' shaped area was excavated further to a final depth of approximately nine feet bgs. Excavated contaminated soil was hauled to an NMOCD approved disposal facility

On September 17, 2025, Hungry Horse notified OCD that closure sampling would occur at the Dr K South location on September 22, 2025. Correspondence is provided as Attachment II.

On September 22, 2025, twenty-eight composite confirmation soil samples were collected from each excavation floor and sidewalls, with each sample representing no more than 200 square feet. One soil sample was also collected from the backfill pit. Soil samples FL1 through FL18, SW1 – SW10, and Backfill, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

Based upon laboratory analytical results from confirmation soil samples, the excavated area was then backfilled with locally sourced, clean, non-impacted soil.

Closure Floor Sample Map and Closure Sidewall Sample Map are provided as Figure 5 and Figure 6, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment V.



Sampling Procedure and Identification:

During confirmation sampling, five-point composite soil samples were collected from the floor of the excavation, each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Closure Sidewall Sample Map, provided as Figure 6, depicts sidewall sample boundaries. Soil samples were jarred, iced, and delivered to the laboratory for analysis of BTEX, TPH, and chloride.

Remediation and Seeding:

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted soil. The area was contoured to achieve erosion control and preserve surface water flow.

The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with the landowner approved seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on an annual basis until desired vegetation cover is achieved.

Closure Request:

Sampling activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from closure confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Matador Resources Company respectfully requests closure of the Dr K South location, NAPP2126643846.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Matador Resources Company

5400 LBJ Freeway Ste 1500

Dallas, TX 75240

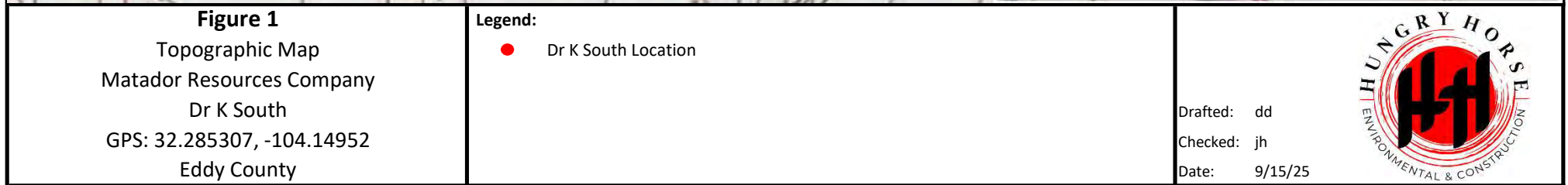
New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

Figures



**Figure 2**

OSE POD Locations Map
Matador Resources Company
Dr K South
GPS: 32.285307, -104.14952
Eddy County

Legend:

- Dr K South Location
- Active OSE Water Well
- Pending OSE Water Well



Drafted: dd
Checked: jh
Date: 9/15/25

**Figure 3**

USGS Well Locations Map
Matador Resources Company
Dr K South
GPS: 32.285307, -104.14952
Eddy County

Legend:

- Dr K South Location
- ▲ USGS Well Location



Drafted: dd
Checked: jh
Date: 9/15/25

**Figure 4**

Delineation Sample Map
Matador Resources Company
Dr K South
GPS: 32.285307, -104.14952
Eddy County

Legend:

- Excavation to Approximately Six Feet bgs
- Excavation to Approximately Four and Half Feet bgs
- SP1 Delineation Sample Location
- F1 Delineation Field Sample Location - Not Laboratory Analyzed

Drafted: dd
Checked: jh
Date: 9/5/25



**Figure 5**

Closure Floor Sample Map
 Matador Resources Company
 Dr K South
 GPS: 32.285307, -104.14952
 Eddy County

Legend:

- Excavated Area
- 200 Square Foot Sample Areas
- FL1 Composite Confirmation Floor Sample Location

Drafted: dd
 Checked: jh
 Date: 9/25/25



**Figure 6**

Closure Sidewall Sample Map
Matador Resources Company
Dr K South
GPS: 32.285307, -104.14952
Eddy County

Legend:

- Excavated Area
- SW1 Composite Confirmation Sidewall Sample Location
- Composite Confirmation Sidewall Sample Boundary

Drafted: dd
Checked: jh
Date: 9/25/25



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Matador Resources Company
Dr K South
NMOCD Ref. #: NAPP2126643846

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP2	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP3	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	360
SP4	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
NMOCD Closure Criteria				10	50	-	-	NA	-	100	600
FL1	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL2	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL3	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL4	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL5	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL6	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL7	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL8	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL9	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL10	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL11	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL12	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL13	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL14	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL15	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL16	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL17	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL18	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW1	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW2	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW3	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW4	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW5	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW6	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW7	9/22/25	0-4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW8	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW9	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW10	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
Backfill	9/22/25	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
NMOCD Closure Criteria				10	50	-	-	NA	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

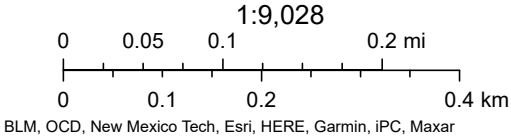
Karst, Wetland, and Soil Maps

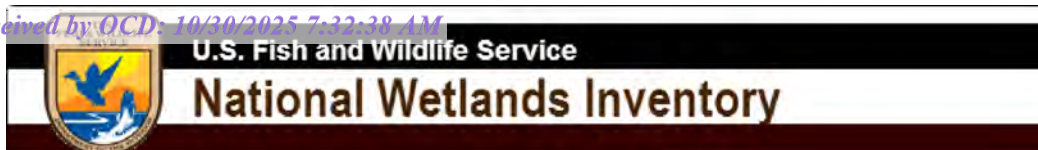


10/1/2025, 8:38:50 AM

Karst Occurrence Potential

- High
- Medium





Dr K South



October 9, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

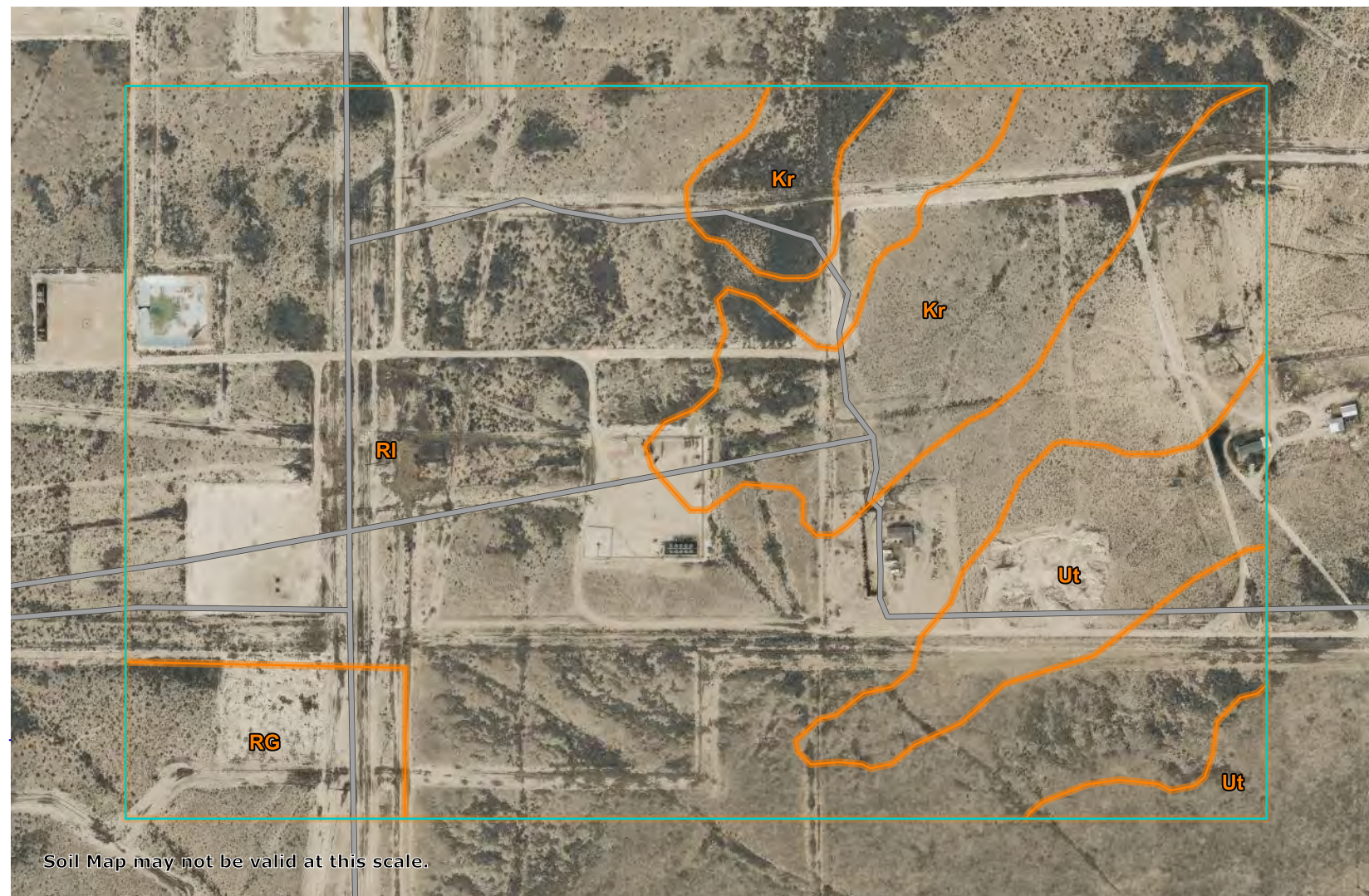
Soil Map—Eddy Area, New Mexico
(Dr K South)

32° 17' 19" N

32° 17' 19" N

104° 9' 23" W

104° 8' 33" W



32° 16' 52" N

32° 16' 52" N

104° 9' 23" W

104° 8' 33" W



Map Scale: 1:5,980 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84

Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey10/9/2025
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Dr K South)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 21, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Kr	Karro loam, 0 to 1 percent slopes	28.2	15.1%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	9.6	5.1%
RI	Reeves loam, 0 to 1 percent slopes	132.0	70.4%
Ut	Upton soils, 1 to 3 percent slopes	17.5	9.3%
Totals for Area of Interest		187.3	100.0%

Attachment II

NMOCD Correspondence

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 506766

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 506766
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2126643846
Incident Name	NAPP2126643846 DR. K SOUTH TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203429889] Dr. K South Facility Flare Stack

Location of Release Source	
Site Name	DR. K SOUTH TANK BATTERY
Date Release Discovered	09/22/2021
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	29
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.285307, -104.149520

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 506766

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 506766
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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.	9/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/17/2025

Attachment III

Depth to Groundwater



New Mexico Office of the State Engineer

Wells With Well Log Information

(A
CLW#####
in the
POD suffix
indicates the
POD has been
replaced &
no longer
serves a water
right file.)

(R=POD has
been
replaced,
O=orphaned,
C=the file is
closed)

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

(NAD83 UTM in meters)

(meters)

(in feet)

POD Number	Code	Sub basin	County	Source	Q64	Q16	Q4	Sec	Tw	Range	X	Y	Distance	Start Date	Finish Date	Log File Date	Borehole Depth	Depth First Encountered	Water Driller	License Number
C 04572	POD1	C	ED	Shallow	SE	NE	NE	26	23S	27E	579665.4	3571950.2	598	2021-09-20	2021-09-21	2021-10-07	128	60	JASON ALLRED	1813
C 02004		C	ED	Shallow		SW	SE	24	23S	27E	580825.0	3572378.0 *	741	1982-05-10	1982-05-21	1982-05-24	232	190	LINTON, GARY	963

Record Count: 2

UTM Filters (in meters):

Easting: 580083.95

Northing: 3572378.04

Radius: 805

* UTM location was derived from PLSS - see Help

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

Attachment IV Site Photographs

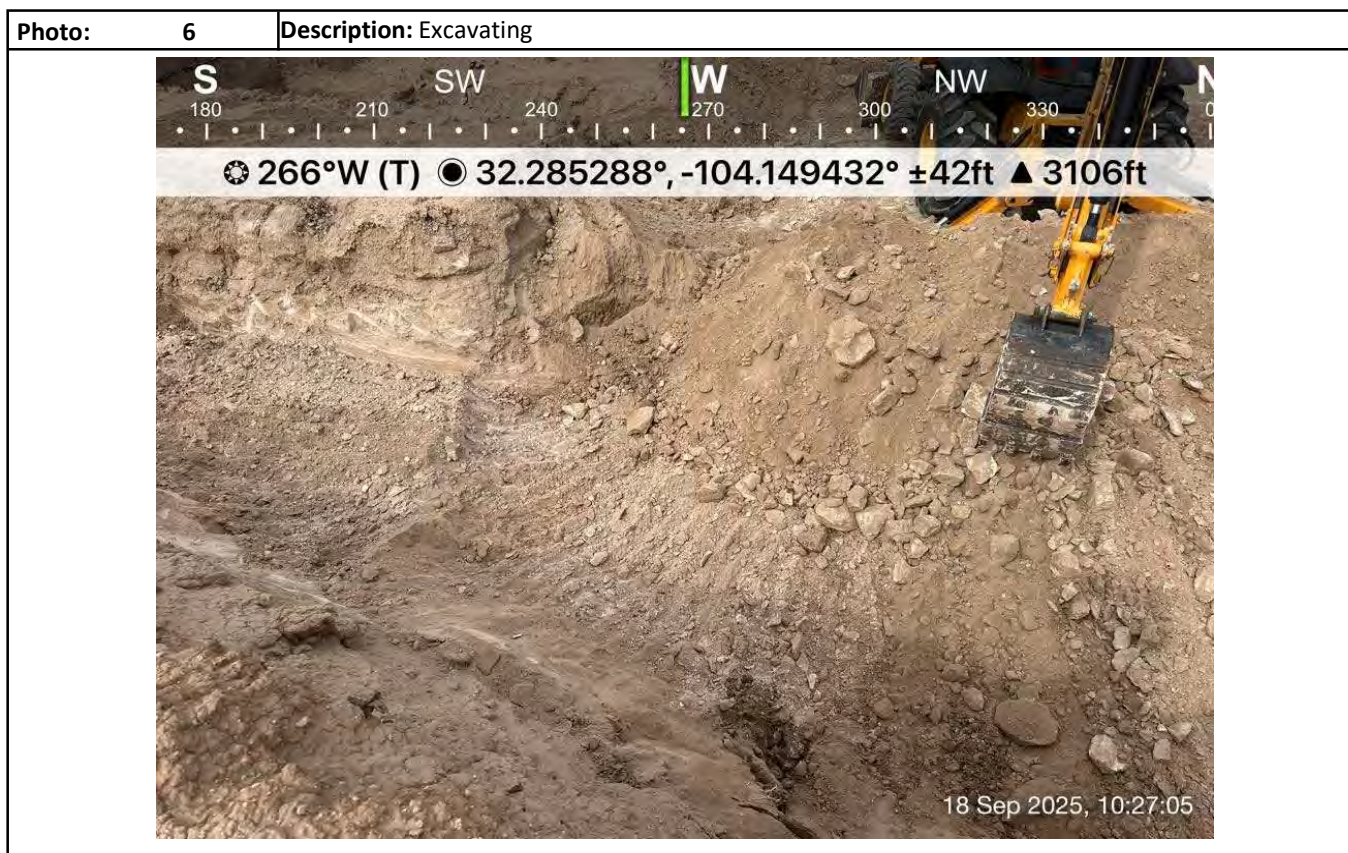
Photographs



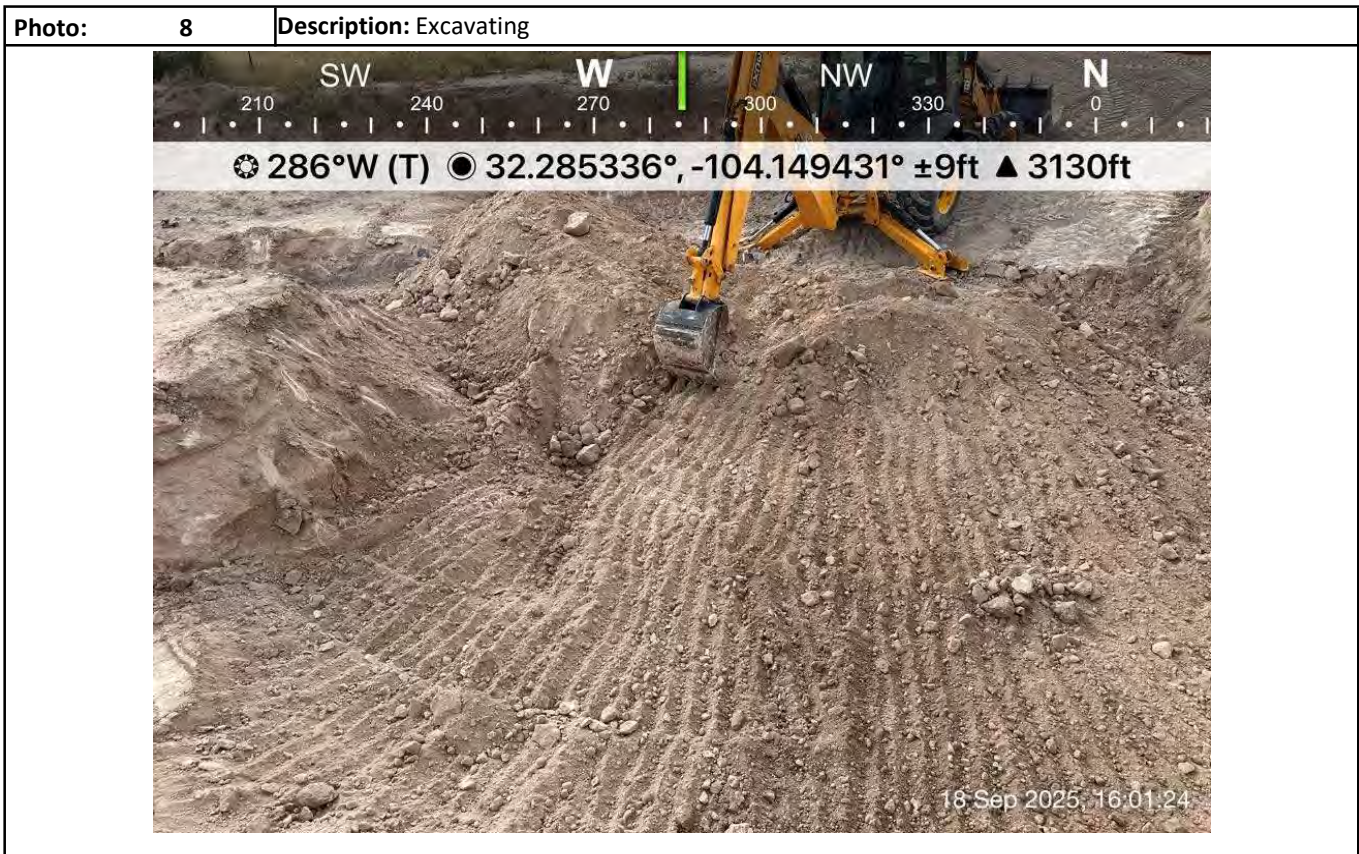
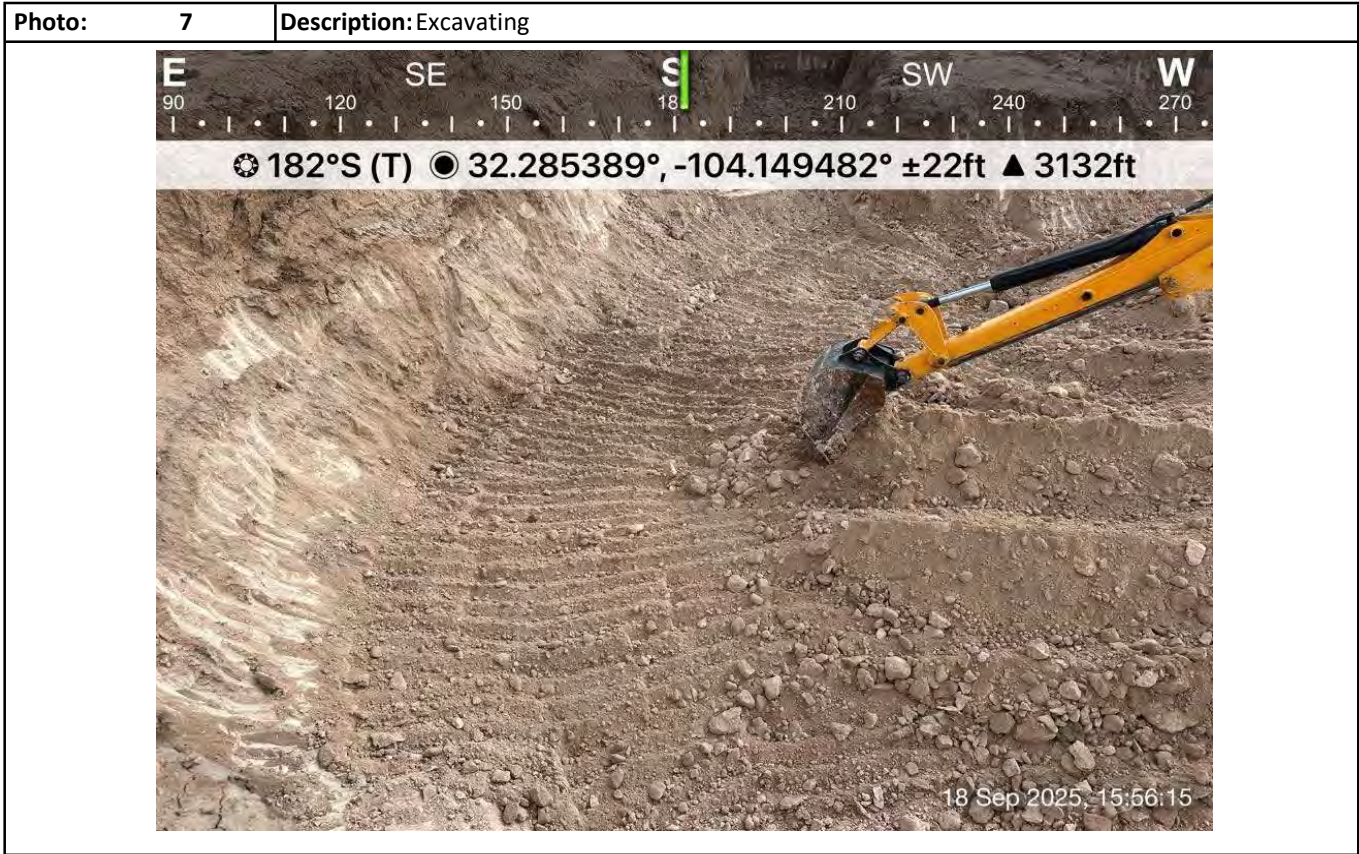
Photographs



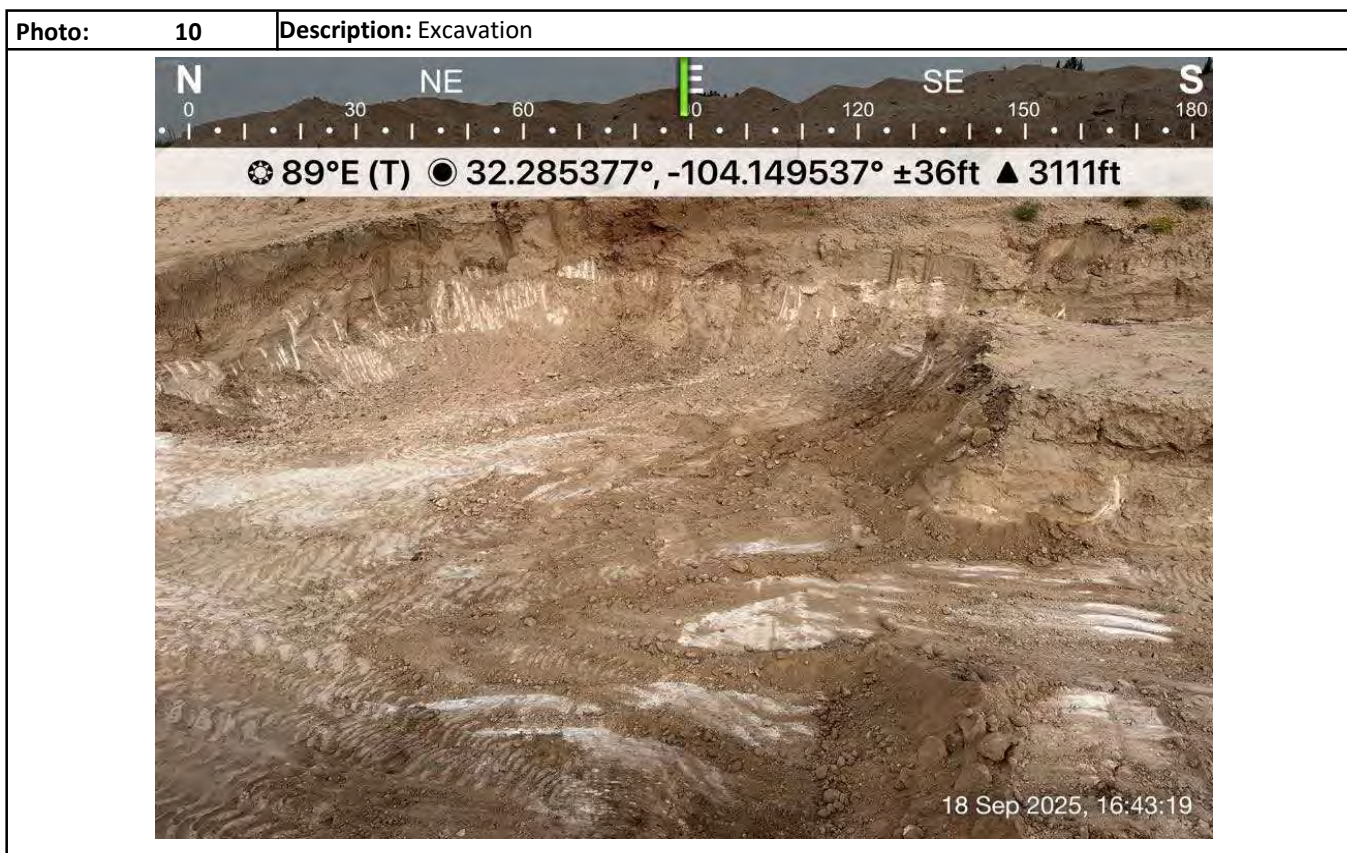
Photographs



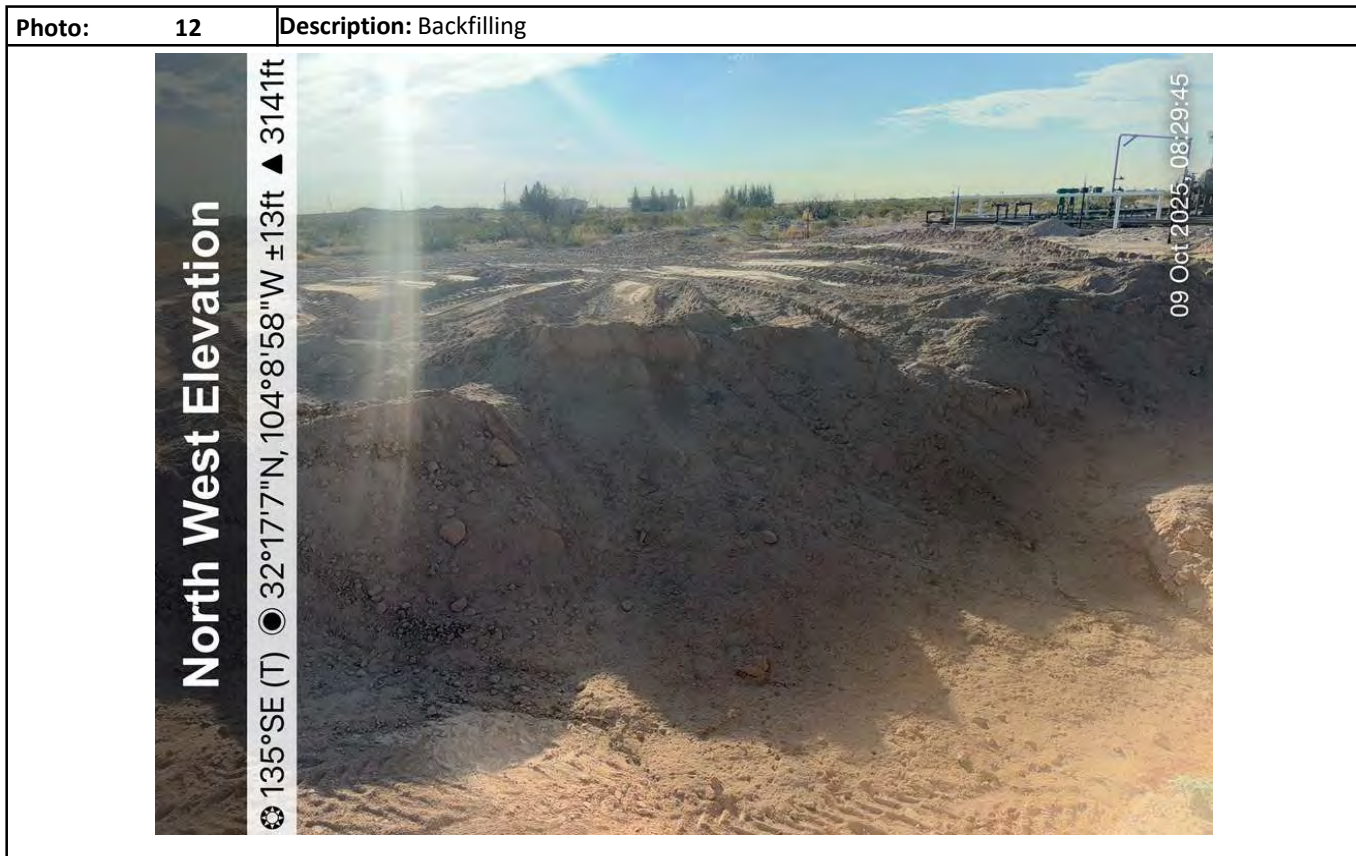
Photographs



Photographs



Photographs



Photographs

Photo:	13	Description: Backfilling
<div><div>South West Elevation</div><div>55°NE (T) 32°17'6"N, 104°8'58"W ±13ft ▲ 3135ft</div><div></div><div>09 Oct 2025, 08:30:42</div></div>		

Photo:	14	Description: Backfilled
<div><div>North Elevation</div><div>166°S (T) 32°17'7"N, 104°8'58"W ±13ft ▲ 3132ft</div><div></div><div>09 Oct 2025, 13:47:17</div></div>		

Photographs

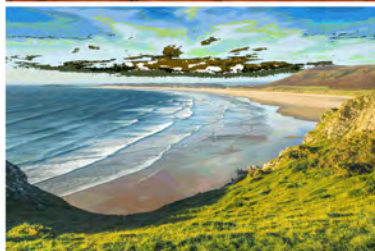


Attachment V

Laboratory Analytical Reports

Report to:

Daniel Dominguez



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: Dr K South

Work Order: E509071

Job Number: 23052-0001

Received: 9/9/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/15/25

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: 9/15/25

Daniel Dominguez
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Dr K South
Workorder: E509071
Date Received: 9/9/2025 7:15:00AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/9/2025 7:15:00AM, under the Project Name: Dr K South.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 09/15/25 08:55
-----------------------------------------------------------------------------	---------------------------------------------------------------------------------------------	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 9'	E509071-01A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP2 9'	E509071-02A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP3 9'	E509071-03A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP4 9'	E509071-04A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/15/2025 8:55:57AM

SP1 9' E509071-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2537066	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>		99.8 %	61-141	09/10/25	09/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2537045	
Chloride	ND	200	10	09/09/25	09/09/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/15/2025 8:55:57AM

SP2 9'

E509071-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2537066	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>		97.9 %	61-141	09/10/25	09/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2537045	
Chloride	ND	200	10	09/09/25	09/09/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/15/2025 8:55:57AM

SP3 9'

E509071-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2537066	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>						
		98.6 %	61-141	09/10/25	09/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2537045	
Chloride	360	200	10	09/09/25	09/09/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/15/2025 8:55:57AM

SP4 9'

E509071-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2537029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.2 %	70-130	09/09/25	09/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2537066	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	09/10/25	09/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2537045	
Chloride	ND	100	5	09/09/25	09/09/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/15/2025 8:55:57AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2537029-BLK1)

Prepared: 09/09/25 Analyzed: 09/10/25

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	8.10		8.00		101	70-130			

LCS (2537029-BS1)

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.38	0.0250	5.00		108	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.46	0.0250	5.00		109	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.4	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike (2537029-MS1)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.26	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.24	0.0250	5.00	ND	105	70-130			
Toluene	5.25	0.0250	5.00	ND	105	70-130			
o-Xylene	5.22	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2537029-MSD1)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.32	0.0250	5.00	ND	106	70-130	1.13	27	
Ethylbenzene	5.32	0.0250	5.00	ND	106	70-130	1.38	26	
Toluene	5.32	0.0250	5.00	ND	106	70-130	1.16	20	
o-Xylene	5.30	0.0250	5.00	ND	106	70-130	1.58	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	1.51	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	1.53	26	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/15/2025 8:55:57AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2537029-BLK1)					Prepared: 09/09/25 Analyzed: 09/10/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			
LCS (2537029-BS2)					Prepared: 09/09/25 Analyzed: 09/09/25				
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			
Matrix Spike (2537029-MS2)					Source: E509059-20		Prepared: 09/09/25 Analyzed: 09/09/25		
Gasoline Range Organics (C6-C10)	58.9	20.0	50.0	ND	118	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike Dup (2537029-MSD2)					Source: E509059-20		Prepared: 09/09/25 Analyzed: 09/09/25		
Gasoline Range Organics (C6-C10)	58.0	20.0	50.0	ND	116	70-130	1.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/15/2025 8:55:57AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2537066-BLK1)					Prepared: 09/10/25 Analyzed: 09/10/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.5	61-141			

LCS (2537066-BS1)					Prepared: 09/10/25 Analyzed: 09/10/25				
Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: n-Nonane	46.6		50.0		93.2	61-141			

Matrix Spike (2537066-MS1)					Source: E509069-03		Prepared: 09/10/25 Analyzed: 09/10/25		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	47.9		50.0		95.9	61-141			

Matrix Spike Dup (2537066-MSD1)					Source: E509069-03		Prepared: 09/10/25 Analyzed: 09/10/25		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	56-156	0.204	20	
Surrogate: n-Nonane	48.4		50.0		96.8	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/15/2025 8:55:57AM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2537045-BLK1)					Prepared: 09/09/25 Analyzed: 09/09/25				
Chloride	ND	20.0							
LCS (2537045-BS1)					Prepared: 09/09/25 Analyzed: 09/09/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2537045-MS1)					Source: E509067-07		Prepared: 09/09/25 Analyzed: 09/09/25		
Chloride	1310	20.0	250	1070	94.7	80-120			
Matrix Spike Dup (2537045-MSD1)					Source: E509067-07		Prepared: 09/09/25 Analyzed: 09/09/25		
Chloride	1360	20.0	250	1070	114	80-120	3.70	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dr K South	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Daniel Dominguez	09/15/25 08:55

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Resources Company				Bill To Attention: Jason Touchet Address: 5400 LBJ Freeway Ste 1500 City, State, Zip: Dallas Phone: 3376523463 Email: jason.touchet@matadorresources.com				Lab Use Only				TAT				EPA Program	
Project: Dr K South								Lab WO# E509071				Job Number 23052-0001				1D	2D
Project Manager: Daniel Dominguez															X		
Address: 4024 Plains Hwy																	
City, State, Zip: Lovington, NM 88260, NM, 88260																	
Phone: 575 393-3386																	
Email: pm@hungry-horse.com																	
Report due by:																	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	5-Sep	Soil	1	SP1	9'	1							X		3.7°
	5-Sep	Soil	1	SP2	9'	2							X		3.6°
	5-Sep	Soil	1	SP3	9'	3							X		3.8°
	5-Sep	Soil	1	SP4	9'	4							X		3.5°

Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature) <i>Paul Dan</i>	Date 9/8/25	Time 1430	Received by: (Signature) <i>Michelle Gonzalez</i>	Date 9-8-25	Time 1430	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzalez</i>	Date 9-8-25	Time 1500	Received by: (Signature) <i>Marissa Gonzalez</i>	Date 9-8-25	Time 1500	
Relinquished by: (Signature) <i>Marissa Gonzalez</i>	Date 9-8-25	Time 1945	Received by: (Signature) <i>Andrew Musso</i>	Date 9.8.25	Time 1945	

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

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

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

Andrew Musso 9.8.25 2400 Nae Sob 9.8.25 0715

Envirotech Analytical Laboratory

Printed: 9/9/2025 10:57:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/09/25 07:15	Work Order ID:	E509071
Phone:	(972) 371-5200	Date Logged In:	09/08/25 15:57	Logged In By:	Caitlin Mars
Email:	pm@hungry-horse.com	Due Date:	09/15/25 07:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Time Sampled and sampled by not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

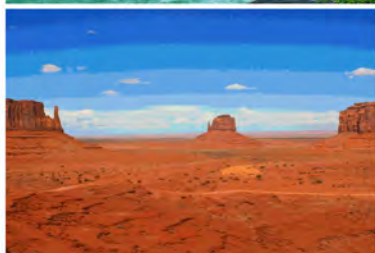
Date



envirotech Inc.

Report to:

Daniel Dominguez



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: Dr K South

Work Order: E509244

Job Number: 23052-0001

Received: 9/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/30/25

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: 9/30/25

Daniel Dominguez
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Dr K South
Workorder: E509244
Date Received: 9/23/2025 5:30:10AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2025 5:30:10AM, under the Project Name: Dr K South.

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

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

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

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

Respectfully,

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Sample Summary

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
09/30/25 13:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 9'	E509244-01A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL2 9'	E509244-02A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL3 9'	E509244-03A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL4 4.5	E509244-04A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL5 4.5	E509244-05A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL6 4.5	E509244-06A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL7 9'	E509244-07A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL8 9'	E509244-08A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL9 9'	E509244-09A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL10 9'	E509244-10A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL11 9'	E509244-11A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL12 9'	E509244-12A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL13 9'	E509244-13A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL14 9'	E509244-14A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL15 9'	E509244-15A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL16 9'	E509244-16A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL17 9'	E509244-17A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL18 9'	E509244-18A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW1 0-9'	E509244-19A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW2 0-9'	E509244-20A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW3 0-9	E509244-21A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW4 0-9	E509244-22A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW5 0-9	E509244-23A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW6 0-9	E509244-24A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW7 0-4.5	E509244-25A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW8 4.5-9	E509244-26A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW9 4.5-9	E509244-27A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW10 4.5-9	E509244-28A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
Backfill 1'	E509244-29A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL1 9' E509244-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		87.6 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL2 9'

E509244-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	88.4 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL3 9'

E509244-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	88.7 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL4 4.5

E509244-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.6 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	91.4 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL5 4.5

E509244-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.3 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL6 4.5

E509244-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	89.8 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL7 9'

E509244-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.9 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	90.8 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL8 9'

E509244-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	89.6 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL9 9'

E509244-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.1 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL10 9'

E509244-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	92.1 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL11 9'

E509244-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.9 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL12 9'

E509244-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.2 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL13 9'

E509244-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	93.6 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL14 9'

E509244-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.6 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL15 9'

E509244-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	88.9 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL16 9'

E509244-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	92.9 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

FL17 9'

E509244-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.4 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL18 9'
E509244-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	90.4 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	

Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW1 0-9'

E509244-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	88.8 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW2 0-9'

E509244-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2539070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.2 %	70-130		09/23/25	09/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539131	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.5 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2539145	
Chloride	ND	20.0	1	09/25/25	09/26/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW3 0-9

E509244-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.4 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		92.5 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW4 0-9

E509244-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	93.4 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW5 0-9

E509244-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.0 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.1 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		94.4 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW6 0-9

E509244-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.9 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		94.0 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW7 0-4.5

E509244-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.5 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	91.6 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW8 4.5-9

E509244-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.8 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.7 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	92.9 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW9 4.5-9

E509244-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.6 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.4 %	70-130	09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		95.3 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

SW10 4.5-9

E509244-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		09/23/25	09/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
	93.1 %	61-141		09/25/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	20.0	1	09/25/25	09/25/25	



Sample Data

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

Project Name: Dr K South
Project Number: 23052-0001
Project Manager: Daniel Dominguez

Reported:
9/30/2025 1:45:55PM

Backfill 1'

E509244-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Benzene	ND	0.0250	1	09/23/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/30/25	
Toluene	ND	0.0250	1	09/23/25	09/30/25	
o-Xylene	ND	0.0250	1	09/23/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %	70-130	09/23/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	09/23/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2539132	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>		90.5 %	61-141	09/25/25	09/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539143	
Chloride	ND	200	10	09/25/25	09/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539070-BLK1)

Prepared: 09/23/25 Analyzed: 09/26/25

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	7.87		8.00		98.4	70-130			

LCS (2539070-BS1)

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	5.29	0.0250	5.00		106	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.27	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2539070-MS1)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.49	0.0250	5.00	ND	110	70-130			
Ethylbenzene	5.43	0.0250	5.00	ND	109	70-130			
Toluene	5.46	0.0250	5.00	ND	109	70-130			
o-Xylene	5.42	0.0250	5.00	ND	108	70-130			
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130			
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

Matrix Spike Dup (2539070-MSD1)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.79	0.0250	5.00	ND	116	70-130	5.19	27	
Ethylbenzene	5.73	0.0250	5.00	ND	115	70-130	5.33	26	
Toluene	5.74	0.0250	5.00	ND	115	70-130	5.01	20	
o-Xylene	5.70	0.0250	5.00	ND	114	70-130	4.94	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	5.23	23	
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130	5.14	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539072-BLK1)

Prepared: 09/23/25 Analyzed: 09/29/25

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	7.56		8.00		94.6	70-130			

LCS (2539072-BS1)

Prepared: 09/23/25 Analyzed: 09/29/25

Benzene	4.90	0.0250	5.00		98.1	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.91	0.0250	5.00		98.3	70-130			
o-Xylene	4.92	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2539072-MS1)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/29/25

Benzene	5.01	0.0250	5.00	ND	100	70-130			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	70-130			
Toluene	5.01	0.0250	5.00	ND	100	70-130			
o-Xylene	5.03	0.0250	5.00	ND	101	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2539072-MSD1)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/30/25

Benzene	4.57	0.0250	5.00	ND	91.5	70-130	9.01	27	
Ethylbenzene	4.56	0.0250	5.00	ND	91.3	70-130	8.61	26	
Toluene	4.60	0.0250	5.00	ND	92.1	70-130	8.53	20	
o-Xylene	4.61	0.0250	5.00	ND	92.2	70-130	8.69	25	
p,m-Xylene	9.22	0.0500	10.0	ND	92.2	70-130	8.60	23	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	70-130	8.63	26	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539070-BLK1)

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			

LCS (2539070-BS2)

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike (2539070-MS2)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

Matrix Spike Dup (2539070-MSD2)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	3.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			



Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539072-BLK1)

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			

LCS (2539072-BS2)

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	58.7	20.0	50.0		117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

Matrix Spike (2539072-MS2)

Source: E509244-22 Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2539072-MSD2)

Source: E509244-22 Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	2.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539131-BLK1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.5	61-141			

LCS (2539131-BS1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	231	25.0	250		92.5	66-144			
Surrogate: n-Nonane	43.6		50.0		87.2	61-141			

Matrix Spike (2539131-MS1)					Source: E509244-10		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	56-156			
Surrogate: n-Nonane	45.3		50.0		90.5	61-141			

Matrix Spike Dup (2539131-MSD1)					Source: E509244-10		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.4	56-156	0.645	20	
Surrogate: n-Nonane	44.8		50.0		89.5	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539132-BLK1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.1	61-141			

LCS (2539132-BS1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	66-144			
Surrogate: n-Nonane	45.2		50.0		90.4	61-141			

Matrix Spike (2539132-MS1)					Source: E509244-21		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	45.9		50.0		91.9	61-141			

Matrix Spike Dup (2539132-MSD1)					Source: E509244-21		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	2.35	20	
Surrogate: n-Nonane	46.9		50.0		93.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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Anions by EPA 300.0/9056A

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
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Blank (2539143-BLK1)					Prepared: 09/25/25 Analyzed: 09/25/25				
Chloride	ND	20.0							
LCS (2539143-BS1)					Prepared: 09/25/25 Analyzed: 09/25/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2539143-MS1)					Source: E509244-24		Prepared: 09/25/25 Analyzed: 09/25/25		
Chloride	266	20.0	250	ND	106	80-120			
Matrix Spike Dup (2539143-MSD1)					Source: E509244-24		Prepared: 09/25/25 Analyzed: 09/25/25		
Chloride	269	20.0	250	ND	107	80-120	1.13	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr K South	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Daniel Dominguez	9/30/2025 1:45:55PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539145-BLK1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Chloride	ND	20.0							
LCS (2539145-BS1)					Prepared: 09/25/25 Analyzed: 09/26/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2539145-MS1)					Source: E509244-05		Prepared: 09/25/25 Analyzed: 09/26/25		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2539145-MSD1)					Source: E509244-05		Prepared: 09/25/25 Analyzed: 09/26/25		
Chloride	261	20.0	250	ND	105	80-120	0.546	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dr K South	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Daniel Dominguez	09/30/25 13:45

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

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

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



Client: Matador Resources Company	Bill To Attention: Jason Touchet Address: 5400 LBJ Freeway Ste 1500 City, State, Zip: Dallas Phone: 3376523463 Email: jason.touchet@matadorresources.com	Lab Use Only						TAT				EPA Program					
Project: Dr K South		Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Daniel Dominguez		E509244					23052-0001					X					
Address: 4024 Plains Hwy															RCRA		
City, State, Zip: Lovington, NM 88260, NM, 8826														State			
Phone: 575 393-3386														NM	CO	UT	AZ
Email: pm@hungry-horse.com													X				
Report due by:													Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX		
810	9/22/25	Soil	1	FL1	9'	1							X			1.5°
812	9/22/25	Soil	1	FL2	9'	2							X			1.9°
814	9/22/25	Soil	1	FL3	9'	3							X			1.8°
816	9/22/25	Soil	1	FL4	4.5	4							X			1.9°
818	9/22/25	Soil	1	FL5	4.5	5							X			2.3°
820	9/22/25	Soil	1	FL6	4.5	6							X			2.5°
822	9/22/25	Soil	1	FL7	9'	7							X			2.7°
824	9/22/25	Soil	1	FL8	9'	8							X			2.8°
826	9/22/25	Soil	1	FL9	9'	9							X			2.5°
828	9/22/25	Soil	1	FL10	9'	10							X			2.3°

Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature) <i>Andrew Musso</i>	Date 9-22-25	Time 1330	Received by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1330	Lab Use Only Received on ice: <input checked="" type="radio"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1430	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1900	Received by: (Signature) <i>Andrew Musso</i>	Date 9-22-25	Time 1900	

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

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

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

Andrew Musso 9-22-25 2400 Noe Sato 9-23-25 0530

Released to: Imaging: 11/13/2026 11:31:50 AM

Received by OCD: 10/30/2025 7:32:38 AM

Project Information

Chain of Custody

Client: Matador Resources Company	Bill To	Lab Use Only		TAT				EPA Program						
Project: Dr K South		Attention: Jason Touchet	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Daniel Dominguez		Address: 5400 LBJ Freeway Ste 1500	E509244	23052-0001				X						
Address: 4024 Plains Hwy		City, State, Zip: Dallas	Analysis and Method								RCRA			
City, State, Zip: Lovington, NM 88260, NM, 8826		Phone: 3376523463												
Phone: 575 393-3386		Email: jason.touchet@matadorresources.com												
Email: pm@hungry-horse.com										State				
Report due by:										NM	CO	UT	AZ	TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
830	9/22/25	Soil	1	FL11	9'	11							X		3.5°
832	9/22/25	Soil	1	FL12	9'	12							X		3.3°
834	9/22/25	Soil	1	FL13	9'	13							X		3.1°
836	9/22/25	Soil	1	FL14	9'	14							X		2.9°
838	9/22/25	Soil	1	FL15	9'	15							X		2.7°
840	9/22/25	Soil	1	FL16	9'	16							X		3.9°
842	9/22/25	Soil	1	FL17	9'	17							X		3.7°
844	9/22/25	Soil	1	FL18	9'	18							X		3.5°
846	9/22/25	Soil	1	SW1	0-9'	19							X		3.3°
848	9/22/25	Soil	1	SW2	0-9'	20							X		3.6°

Additional Instructions:

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

Relinquished by: (Signature) <i>[Signature]</i>		Date 9-22-25	Time 1330	Received by: (Signature) <i>Michelle Gonzales</i>		Date 9-22-25	Time 1330	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>		Date 9-22-25	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>		Date 9-22-25	Time 1430	
Relinquished by: (Signature) <i>Marissa Gonzales</i>		Date 9-22-25	Time 1900	Received by: (Signature) <i>Andreue Musso</i>		Date 9-22-25	Time 1900	

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

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

Andreue Musso 9-22-25 2400 Noe Sab 9-23-25 0530



Page 96 of 180

Client: Matador Resources Company		Bill To		Lab Use Only		TAT				EPA Program	
Project: Dr K South		Attention: Jason Touchet		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Daniel Dominguez		Address: 5400 LBJ Freeway Ste 1500		ES09244		Job Number		23052-0001		X	
Address: 4024 Plains Hwy		City, State, Zip: Dallas		Analysis and Method						RCRA	
City, State, Zip: Lovington, NM 88260, NM, 8826		Phone: 3376523463								State	
Phone: 575 393-3386		Email: jason.touchet@matadorresources.com								NM CO UT AZ TX	
Email: pm@hungry-horse.com										X	
Report due by:										Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
850	9/22/25	Soil	1	SW3	0-9	21							X		4.1°
852	9/22/25	Soil	1	SW4	0-9	22							X		3.5°
854	9/22/25	Soil	1	SW5	0-9	23							X		3.7°
856	9/22/25	Soil	1	SW6	0-9	24							X		3.8°
858	9/22/25	Soil	1	SW7	0-4.5	25							X		3.5°
900	9/22/25	Soil	1	SW8	4.5-9	26							X		3.3°
902	9/22/25	Soil	1	SW9	4.5-9	27							X		3.1°
904	9/22/25	Soil	1	SW10	4.5-9	28							X		3.4°
920	9/22/25	Soil	1	Backfill	1'	29							X		3.3°

Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature) <i>Henry Rodriguez</i>	Date 9-22-25	Time 1330	Received by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1330	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1430	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1900	Received by: (Signature) <i>Andrew Musso</i>	Date 9-22-25	Time 1900	

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

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

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

Andrew Musso 9-22-25 2400 Na Salt 9-23-25 0530

Envirotech Analytical Laboratory

Printed: 9/23/2025 10:48:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/23/25 05:30	Work Order ID:	E509244
Phone:	(972) 371-5200	Date Logged In:	09/23/25 07:33	Logged In By:	Noe Soto
Email:	pm@hungry-horse.com	Due Date:	09/29/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Sampled by not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Attachment VI
Vertex and Talon Analytical Tables and Laboratory Analytical
Reports

Client Name: Matador Resources
 Site Name: Dr. K South
 NMOCD Tracking #: NAPP2126643846
 Project #: 22E-04125
 Lab Report: 2109F75

Table 2. Initial Characterization Field Screen and Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons												Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile							Extractable					
						Benzene	Toluene	Ethylbenzene	Xylenes (o&m)	Xylenes (p)	Xylenes (Total)	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BG21-01	0.5	9/24/2021	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG21-01	1	9/24/2021	0	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG21-01	2	9/24/2021	0	-	251	-	-	-	-	-	-	-	-	-	-	-	-	-
BG21-01	4	9/24/2021	0	-	580	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
BG21-01	6	9/24/2021	0	-	500	-	-	-	-	-	-	-	-	-	-	-	-	-
BG21-01	8	9/24/2021	0	-	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
BG21-02	2	9/24/2021	0	-	352	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
BH21-01	0.5	9/24/2021	0	47	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	0.5	9/24/2021	1	32	322	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-03	0.5	9/24/2021	1	47	207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-04	0.5	9/24/2021	1	55	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-05	0.5	9/24/2021	14	-	13,200	ND	ND	ND	ND	ND	ND	ND	ND	1300	1000	1300	2300	16000
BH21-05	2	9/24/2021	14	-	8,420	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	4	9/24/2021	8	-	8,268	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9700
BH21-05	6	9/24/2021	6	-	6,895	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-05	8	9/24/2021	6	-	6,032	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	22	22	4600
BH21-06	0.5	9/24/2021	13	-	13,423	ND	ND	ND	ND	ND	ND	ND	8.3	400	250	408.3	658.3	13000
BH21-06	2	9/24/2021	10	-	8,865	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-06	4	9/24/2021	9	-	7,201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
BH21-06	6	9/24/2021	8	-	6,924	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-06	8	9/24/2021	9	-	6,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6600
BH21-07	0.5	9/24/2021	2	81	375	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63
BH21-08	0.5	9/24/2021	1	72	580	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270
BH21-09	0.5	9/24/2021	0	52	587	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260
BH21-10	0.5	9/24/2021	0	-	6,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6200
BH21-10	2	9/24/2021	1	-	4,630	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-10	4	9/24/2021	10	-	7,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2300
BH21-10	6	9/24/2021	5	-	8,639	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-10	8	9/24/2021	7	-	5,462	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5400
BH21-11	0.5	9/24/2021	0	29	377	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-12	1	9/30/2021	-	-	11,157	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-12	8	9/30/2021	-	-	4,092	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-13	1	9/30/2021	-	-	585	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-13	8	9/30/2021	-	-	3,427	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-14	1	9/30/2021	-	-	8,002	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-15	1	9/30/2021	-	-	13,167	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21-15	8	9/30/2021	-	-	3,122	-	-	-	-	-	-	-	-	-	-	-	-	-

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 14, 2021

John Hurt
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX

RE: Dr K South

OrderNo.: 2109F75

Dear John Hurt:

Hall Environmental Analysis Laboratory received 21 sample(s) on 9/28/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-01 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:00:00 AM**Lab ID:** 2109F75-001**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/1/2021 3:14:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/1/2021 3:14:10 AM
Surr: DNOP	83.2	70-130		%Rec	1	10/1/2021 3:14:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/3/2021 9:37:57 PM
Surr: BFB	103	70-130		%Rec	1	10/3/2021 9:37:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/3/2021 9:37:57 PM
Toluene	ND	0.046		mg/Kg	1	10/3/2021 9:37:57 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/3/2021 9:37:57 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/3/2021 9:37:57 PM
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	10/3/2021 9:37:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/30/2021 11:01:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2109F75

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH21-02 0.5'

Project: Dr K South

Collection Date: 9/24/2021 8:10:00 AM

Lab ID: 2109F75-002

Matrix: SOIL

Received Date: 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 6:23:04 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 6:23:04 PM
Surr: DNOP	72.2	70-130		%Rec	1	9/30/2021 6:23:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2021 10:01:19 PM
Surr: BFB	103	70-130		%Rec	1	10/3/2021 10:01:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/3/2021 10:01:19 PM
Toluene	ND	0.047		mg/Kg	1	10/3/2021 10:01:19 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2021 10:01:19 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/3/2021 10:01:19 PM
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	10/3/2021 10:01:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	61		mg/Kg	20	9/30/2021 11:13:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2109F75

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH21-03 0.5'

Project: Dr K South

Collection Date: 9/24/2021 8:20:00 AM

Lab ID: 2109F75-003

Matrix: SOIL

Received Date: 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 6:58:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 6:58:50 PM
Surr: DNOP	78.7	70-130		%Rec	1	9/30/2021 6:58:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2021 11:11:39 PM
Surr: BFB	101	70-130		%Rec	1	10/3/2021 11:11:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/3/2021 11:11:39 PM
Toluene	ND	0.048		mg/Kg	1	10/3/2021 11:11:39 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2021 11:11:39 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2021 11:11:39 PM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/3/2021 11:11:39 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	9/30/2021 11:26:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-04 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:30:00 AM**Lab ID:** 2109F75-004**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 7:10:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 7:10:50 PM
Surr: DNOP	80.3	70-130		%Rec	1	9/30/2021 7:10:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 12:22:14 AM
Surr: BFB	98.4	70-130		%Rec	1	10/4/2021 12:22:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 12:22:14 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 12:22:14 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 12:22:14 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 12:22:14 AM
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	10/4/2021 12:22:14 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	61		mg/Kg	20	9/30/2021 11:38:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:40:00 AM**Lab ID:** 2109F75-005**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	1300	93		mg/Kg	10	10/1/2021 11:22:26 AM
Motor Oil Range Organics (MRO)	1000	460		mg/Kg	10	10/1/2021 11:22:26 AM
Surr: DNOP	0	70-130	S	%Rec	10	10/1/2021 11:22:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 12:45:47 AM
Surr: BFB	106	70-130		%Rec	1	10/4/2021 12:45:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 12:45:47 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 12:45:47 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 12:45:47 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 12:45:47 AM
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	10/4/2021 12:45:47 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	16000	600		mg/Kg	200	10/1/2021 7:29:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:50:00 AM**Lab ID:** 2109F75-006**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	400	9.8		mg/Kg	1	9/30/2021 7:22:48 PM
Motor Oil Range Organics (MRO)	250	49		mg/Kg	1	9/30/2021 7:22:48 PM
Surr: DNOP	83.6	70-130		%Rec	1	9/30/2021 7:22:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	8.3	5.0		mg/Kg	1	10/4/2021 1:09:20 AM
Surr: BFB	121	70-130		%Rec	1	10/4/2021 1:09:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 1:09:20 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 1:09:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 1:09:20 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/4/2021 1:09:20 AM
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	10/4/2021 1:09:20 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	13000	600		mg/Kg	200	10/1/2021 7:42:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-07 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:00:00 AM**Lab ID:** 2109F75-007**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 7:34:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 7:34:47 PM
Surr: DNOP	65.3	70-130	S	%Rec	1	9/30/2021 7:34:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 1:32:54 AM
Surr: BFB	102	70-130		%Rec	1	10/4/2021 1:32:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 1:32:54 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 1:32:54 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 1:32:54 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 1:32:54 AM
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	10/4/2021 1:32:54 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	63	60		mg/Kg	20	10/1/2021 12:15:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-08 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:10:00 AM**Lab ID:** 2109F75-008**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 7:46:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 7:46:47 PM
Surr: DNOP	108	70-130		%Rec	1	9/30/2021 7:46:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 1:56:26 AM
Surr: BFB	106	70-130		%Rec	1	10/4/2021 1:56:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 1:56:26 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 1:56:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 1:56:26 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 1:56:26 AM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	10/4/2021 1:56:26 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	59		mg/Kg	20	10/1/2021 12:28:14 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-09 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:20:00 AM**Lab ID:** 2109F75-009**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 7:58:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 7:58:47 PM
Surr: DNOP	57.5	70-130	S	%Rec	1	9/30/2021 7:58:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 2:20:00 AM
Surr: BFB	102	70-130		%Rec	1	10/4/2021 2:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 2:20:00 AM
Toluene	ND	0.046		mg/Kg	1	10/4/2021 2:20:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 2:20:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/4/2021 2:20:00 AM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	10/4/2021 2:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	260	60		mg/Kg	20	10/1/2021 1:42:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:30:00 AM**Lab ID:** 2109F75-010**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 8:10:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 8:10:50 PM
Surr: DNOP	66.4	70-130	S	%Rec	1	9/30/2021 8:10:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 2:43:33 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 2:43:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 2:43:33 AM
Toluene	ND	0.049		mg/Kg	1	10/4/2021 2:43:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 2:43:33 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 2:43:33 AM
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	10/4/2021 2:43:33 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	6200	300		mg/Kg	100	10/6/2021 6:33:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-11 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:40:00 AM**Lab ID:** 2109F75-011**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 8:22:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 8:22:52 PM
Surr: DNOP	61.5	70-130	S	%Rec	1	9/30/2021 8:22:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 3:54:09 AM
Surr: BFB	103	70-130		%Rec	1	10/4/2021 3:54:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 3:54:09 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 3:54:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 3:54:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 3:54:09 AM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/4/2021 3:54:09 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/1/2021 3:21:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 4'**Project:** Dr K South**Collection Date:** 9/24/2021 9:50:00 AM**Lab ID:** 2109F75-012**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 8:34:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 8:34:49 PM
Surr: DNOP	83.7	70-130		%Rec	1	9/30/2021 8:34:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 4:17:36 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 4:17:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 4:17:36 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 4:17:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 4:17:36 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2021 4:17:36 AM
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	10/4/2021 4:17:36 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	9700	300		mg/Kg	100	10/6/2021 6:46:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 8'**Project:** Dr K South**Collection Date:** 9/24/2021 10:00:00 AM**Lab ID:** 2109F75-013**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	22	9.7		mg/Kg	1	9/30/2021 8:46:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 8:46:47 PM
Surr: DNOP	87.3	70-130		%Rec	1	9/30/2021 8:46:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 4:41:06 AM
Surr: BFB	102	70-130		%Rec	1	10/4/2021 4:41:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 4:41:06 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 4:41:06 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 4:41:06 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 4:41:06 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	10/4/2021 4:41:06 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	4600	150		mg/Kg	50	10/6/2021 6:58:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 4'**Project:** Dr K South**Collection Date:** 9/24/2021 10:10:00 AM**Lab ID:** 2109F75-014**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 8:58:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 8:58:43 PM
Surr: DNOP	85.2	70-130		%Rec	1	9/30/2021 8:58:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 5:04:36 AM
Surr: BFB	103	70-130		%Rec	1	10/4/2021 5:04:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:04:36 AM
Toluene	ND	0.049		mg/Kg	1	10/4/2021 5:04:36 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 5:04:36 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 5:04:36 AM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	10/4/2021 5:04:36 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	5000	300		mg/Kg	100	10/6/2021 7:11:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 8'**Project:** Dr K South**Collection Date:** 9/24/2021 10:20:00 AM**Lab ID:** 2109F75-015**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 9:10:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 9:10:48 PM
Surr: DNOP	87.1	70-130		%Rec	1	9/30/2021 9:10:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 5:28:01 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 5:28:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:28:01 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 5:28:01 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 5:28:01 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 5:28:01 AM
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	10/4/2021 5:28:01 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	6600	300		mg/Kg	100	10/6/2021 7:23:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 4'**Project:** Dr K South**Collection Date:** 9/24/2021 10:30:00 AM**Lab ID:** 2109F75-016**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 9:22:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:22:35 PM
Surr: DNOP	112	70-130		%Rec	1	9/30/2021 9:22:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 5:51:28 AM
Surr: BFB	102	70-130		%Rec	1	10/4/2021 5:51:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:51:28 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 5:51:28 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 5:51:28 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 5:51:28 AM
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	10/4/2021 5:51:28 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	2300	60		mg/Kg	20	10/1/2021 4:23:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 8'**Project:** Dr K South**Collection Date:** 9/24/2021 10:40:00 AM**Lab ID:** 2109F75-017**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 9:34:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:34:31 PM
Surr: DNOP	87.0	70-130		%Rec	1	9/30/2021 9:34:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 6:14:51 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 6:14:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 6:14:51 AM
Toluene	ND	0.046		mg/Kg	1	10/4/2021 6:14:51 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 6:14:51 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 6:14:51 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 6:14:51 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	5400	300		mg/Kg	100	10/6/2021 7:35:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 10:50:00 AM**Lab ID:** 2109F75-018**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/30/2021 9:46:19 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:46:19 PM
Surr: DNOP	67.4	70-130	S	%Rec	1	9/30/2021 9:46:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 6:38:15 AM
Surr: BFB	103	70-130		%Rec	1	10/4/2021 6:38:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 6:38:15 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 6:38:15 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 6:38:15 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 6:38:15 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	10/4/2021 6:38:15 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/1/2021 4:48:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 4'**Project:** Dr K South**Collection Date:** 9/24/2021 11:00:00 AM**Lab ID:** 2109F75-019**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 9:58:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:58:16 PM
Surr: DNOP	71.7	70-130		%Rec	1	9/30/2021 9:58:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 7:01:37 AM
Surr: BFB	99.5	70-130		%Rec	1	10/4/2021 7:01:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 7:01:37 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 7:01:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 7:01:37 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 7:01:37 AM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	10/4/2021 7:01:37 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	250	59		mg/Kg	20	10/1/2021 5:00:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 8'**Project:** Dr K South**Collection Date:** 9/24/2021 11:10:00 AM**Lab ID:** 2109F75-020**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 10:10:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 10:10:03 PM
Surr: DNOP	74.0	70-130		%Rec	1	9/30/2021 10:10:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 7:25:00 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 7:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 7:25:00 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 7:25:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 7:25:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 7:25:00 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 7:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	140	60		mg/Kg	20	10/1/2021 5:13:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109F75**Date Reported: **10/14/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-02 2'**Project:** Dr K South**Collection Date:** 9/24/2021 11:20:00 AM**Lab ID:** 2109F75-021**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/30/2021 10:22:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2021 10:22:02 PM
Surr: DNOP	71.7	70-130		%Rec	1	9/30/2021 10:22:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 8:35:11 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 8:35:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 8:35:11 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 8:35:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 8:35:11 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 8:35:11 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 8:35:11 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/1/2021 5:50:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

Client: Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: MB-62955	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62955	RunNo: 81714								
Prep Date: 9/30/2021	Analysis Date: 9/30/2021	SeqNo: 2889055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62955	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62955	RunNo: 81714								
Prep Date: 9/30/2021	Analysis Date: 9/30/2021	SeqNo: 2889056	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: MB-62961	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62961	RunNo: 81741								
Prep Date: 10/1/2021	Analysis Date: 10/1/2021	SeqNo: 2890158	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62961	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62961	RunNo: 81741								
Prep Date: 10/1/2021	Analysis Date: 10/1/2021	SeqNo: 2890159	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

Client: Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: MB-62919	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62919	RunNo: 81694								
Prep Date: 9/29/2021	Analysis Date: 9/30/2021	SeqNo: 2888406	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Sample ID: MB-62925	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62925	RunNo: 81694								
Prep Date: 9/29/2021	Analysis Date: 9/30/2021	SeqNo: 2888407	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-62919	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62919	RunNo: 81694								
Prep Date: 9/29/2021	Analysis Date: 9/30/2021	SeqNo: 2888408	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135			
Surr: DNOP	4.8		5.000		96.6	70	130			

Sample ID: LCS-62925	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62925	RunNo: 81694								
Prep Date: 9/29/2021	Analysis Date: 9/30/2021	SeqNo: 2888409	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	68.9	135			
Surr: DNOP	4.8		5.000		95.8	70	130			

Sample ID: 2109F75-002AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH21-02 0.5'	Batch ID: 62925	RunNo: 81694								
Prep Date: 9/29/2021	Analysis Date: 9/30/2021	SeqNo: 2888469	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.7	48.69	0	74.5	39.3	155			
Surr: DNOP	3.5		4.869		71.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109F75
14-Oct-21

Client: Vertex Resources Services, Inc.
Project: Dr K South

Sample ID: 2109F75-002AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH21-02 0.5'		Batch ID: 62925		RunNo: 81694						
Prep Date: 9/29/2021		Analysis Date: 9/30/2021		SeqNo: 2888471		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.7	48.31	0	80.8	39.3	155	7.35	23.4	
Surr: DNOP	3.9		4.831		81.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

Client: Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: lcs-62908	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62908	RunNo: 81717								
Prep Date: 9/29/2021	Analysis Date: 10/1/2021	SeqNo: 2889714	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		123	70	130			

Sample ID: mb-62908	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62908	RunNo: 81717								
Prep Date: 9/29/2021	Analysis Date: 10/1/2021	SeqNo: 2889716	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		120	70	130			

Sample ID: mb-62915	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891569	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-62915	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891570	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: 2109f75-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH21-02 0.5'	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891572	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.61	0	112	61.3	114			
Surr: BFB	1200		984.3		117	70	130			

Sample ID: 2109f75-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH21-02 0.5'	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109F75
14-Oct-21

Client: Vertex Resources Services, Inc.
Project: Dr K South

Sample ID: 2109f75-002amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH21-02 0.5'		Batch ID: 62915		RunNo: 81769						
Prep Date: 9/29/2021		Analysis Date: 10/3/2021		SeqNo: 2891573		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.37	0	99.0	61.3	114	13.2	20	
Surr: BFB	1100		974.7		114	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

Client: Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: LCS-62908	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62908	RunNo: 81717								
Prep Date: 9/29/2021	Analysis Date: 10/1/2021	SeqNo: 2889767	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.6	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: mb-62908	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62908	RunNo: 81717								
Prep Date: 9/29/2021	Analysis Date: 10/1/2021	SeqNo: 2889769	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: mb-62915	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891632	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	70	130			

Sample ID: LCS-62915	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891633	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2109F75****14-Oct-21****Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: 2109f75-003ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH21-03 0.5'	Batch ID: 62915		RunNo: 81769							
Prep Date: 9/29/2021	Analysis Date: 10/3/2021		SeqNo: 2891636		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9690	0	91.2	80	120			
Toluene	0.90	0.048	0.9690	0	93.3	80	120			
Ethylbenzene	0.90	0.048	0.9690	0	92.7	80	120			
Xylenes, Total	2.7	0.097	2.907	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		0.9690		84.8	70	130			

Sample ID: 2109f75-003amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH21-03 0.5'	Batch ID: 62915		RunNo: 81769							
Prep Date: 9/29/2021	Analysis Date: 10/3/2021		SeqNo: 2891637		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9569	0	89.8	80	120	2.78	20	
Toluene	0.88	0.048	0.9569	0	92.0	80	120	2.68	20	
Ethylbenzene	0.89	0.048	0.9569	0	92.6	80	120	1.35	20	
Xylenes, Total	2.6	0.096	2.871	0	90.6	80	120	2.28	20	
Surr: 4-Bromofluorobenzene	0.82		0.9569		86.0	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2109F75

RcptNo: 1

Received By: Cheyenne Cason

9/28/2021 9:10:00 AM

Completed By: Sean Livingston

9/28/2021 9:42:35 AM

Reviewed By: TML

9/28/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: KPL 9/28/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	0.6	Good				

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any subcontracted data will be clearly notated on the analytical report.

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record									
Client: <u>Varley</u>		Turn-Around Time: <u>5- Day</u>							
Mailing Address: <u>ON FIRE</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		Project Name: <u>Dr. K South</u>					
Phone #: _____		Project #: <u>Z1E-00087-019</u>		Project Manager: <u>John Hunt</u>					
email or Fax#: _____		<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Sampler: <u>CD</u> On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
QA/QC Package: _____		<input type="checkbox"/> Standard <input type="checkbox"/> Az Compliance <input type="checkbox"/> Other		# of Coolers: <u>2</u> 1.4 - 0 = 1.4 Cooler Temp (including CF): <u>0.6 - 0 = 0.6</u> (°C)					
<input type="checkbox"/> NELAC <input type="checkbox"/> EDD (Type) _____									
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.			
9/24	10:00	Soil	BH21-05 8'	402	ICC	013			
	10:10		BH21-06 41'			014			
	10:20		BH21-06 8'			015			
	10:30		BH21-10 41'			016			
	10:40		BH21-10 8'			017			
	10:50		BH21-01 0.5'			018			
	11:00		BH21-01 41'			019			
	11:10		BH21-01 8'			020			
	11:20		BH21-02 2'			021			
Date: _____		Time: _____		Relinquished by: _____		Date: _____		Time: _____	
Date: <u>9/24/2000</u>		Time: <u>9:00</u>		Relinquished by: <u>Alumina</u>		Date: <u>9/28/2000</u>		Time: <u>9:30</u>	
Date: _____		Time: _____		Relinquished by: _____		Date: _____		Time: _____	
Date: _____		Time: _____		Relinquished by: _____		Date: _____		Time: _____	

Remarks:	CC: Chance Dixon Magador Resources
----------	---------------------------------------

Received by:	Via:	Date	Time
<i>[Signature]</i>		01/07/93	

Received by: Via: Date Time

One corner 9/28/14 09/10

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Table 1

Confirmation Samples
Incident # NAPP2126643846

Dr. K South Tank Battery									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO combined = 1000 mg/kg		-	2500 mg/kg	10000 mg/kg
C-1	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	1400
C-2	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3790
C-3	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	656
C-4	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3570
C-5	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3130
C-6	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	2620
C-7	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	7810
C-8	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	8530
C-9	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	7840
C-10	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	6950
SW-1	11/9/2023	-	ND	ND	ND	ND	ND	ND	29.1
SW-2	11/9/2023	-	ND	ND	ND	ND	ND	ND	31.9
SW-3	11/9/2023	-	ND	ND	ND	ND	ND	ND	21.8
SW-4	11/9/2023	-	ND	ND	ND	ND	ND	ND	506
SW-5	11/9/2023	-	ND	ND	ND	ND	ND	ND	ND

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
TPH Total petroleum hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor oil range organics
C Confirmation sample
SW Sidewall Sample
ND Analyte not detected

**Highlighted cells indicate exceedance of NMOCD Table
1 Closure Criteria**

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. K

Work Order: E311087

Job Number: 23052-0001

Received: 11/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/16/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/16/23

Chad Hensley
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Dr. K
Workorder: E311087
Date Received: 11/10/2023 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2023 7:00:00AM, under the Project Name: Dr. K.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
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Sample Summary

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/23 15:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 4.5'	E311087-01A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-2 4.5'	E311087-02A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-3 4.5'	E311087-03A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-4 4.5'	E311087-04A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-5 4.5'	E311087-05A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-6 4.5'	E311087-06A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-1	E311087-07A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-2	E311087-08A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-3	E311087-09A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-4	E311087-10A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-5	E311087-11A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------

C-1 4.5'

E311087-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.1 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/15/23	
<i>Surrogate: n-Nonane</i>	93.5 %	50-200		11/15/23	11/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	1400	200	10	11/14/23	11/15/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

C-2 4.5'

E311087-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/15/23	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		11/15/23	11/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	3790	200	10	11/14/23	11/15/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

C-3 4.5'

E311087-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.1 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>	93.6 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	656	200	10	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

C-4 4.5'

E311087-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	3570	200	10	11/14/23	11/15/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

C-5 4.5'

E311087-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	3130	200	10	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

C-6 4.5'

E311087-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	96.0 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	2620	200	10	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

SW-1

E311087-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	29.1	20.0	1	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

SW-2

E311087-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	31.9	20.0	1	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

SW-3

E311087-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	21.8	20.0	1	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

SW-4

E311087-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2346016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.0 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346041	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>	92.7 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2346032	
Chloride	506	200	10	11/14/23	11/16/23	



Sample Data

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

Project Name: Dr. K
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
11/16/2023 3:16:56PM

SW-5

E311087-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		11/13/23	11/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/15/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	ND	20.0	1	11/14/23	11/16/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. K	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	11/16/2023 3:16:56PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346016-BLK1)

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

LCS (2346016-BS1)

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.99	0.0250	5.00		99.7	70-130			
Ethylbenzene	4.91	0.0250	5.00		98.2	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			

Matrix Spike (2346016-MS1)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.76	0.0250	5.00	ND	95.3	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.73	0.0250	5.00	ND	94.6	61-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2346016-MSD1)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	1.38	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	1.85	20	
Toluene	4.82	0.0250	5.00	ND	96.4	61-130	1.87	20	
o-Xylene	4.80	0.0250	5.00	ND	95.9	63-131	2.30	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	2.06	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	2.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. K	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	11/16/2023 3:16:56PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346016-BLK1) Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

LCS (2346016-BS2) Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			

Matrix Spike (2346016-MS2) Source: E311071-02 Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2346016-MSD2) Source: E311071-02 Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130	8.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. K	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	11/16/2023 3:16:56PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346041-BLK1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2346041-BS1)					Prepared: 11/15/23 Analyzed: 11/15/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

Matrix Spike (2346041-MS1)					Source: E311087-02		Prepared: 11/15/23 Analyzed: 11/15/23		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike Dup (2346041-MSD1)					Source: E311087-02		Prepared: 11/15/23 Analyzed: 11/15/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.33	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346032-BLK1)					Prepared: 11/14/23 Analyzed: 11/15/23				
Chloride	ND	20.0							
LCS (2346032-BS1)					Prepared: 11/14/23 Analyzed: 11/15/23				
Chloride	245	20.0	250		97.9	90-110			
Matrix Spike (2346032-MS1)					Source: E311087-04		Prepared: 11/14/23 Analyzed: 11/15/23		
Chloride	3640	200	250	3570	30.8	80-120			M4
Matrix Spike Dup (2346032-MSD1)					Source: E311087-04		Prepared: 11/14/23 Analyzed: 11/15/23		
Chloride	3790	200	250	3570	91.1	80-120	4.05	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Dr. K	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	11/16/23 15:16

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

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: <u>Mattador</u> Project: <u>Dr. B</u> Project Manager: <u>C. Hensley</u> Address: <u>408 W Texas</u> City, State, Zip: <u>Artesia, NM 88210</u> Phone: <u>575-746-8768</u> Email: <u>noose@talenmex.com</u>				Bill To Attention: <u>Talen</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>E31087</u> Job Number <u>23042-0001</u> Analysis and Method				TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>			
Report due by: _____												State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>				Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRG/ORD by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCED 1005-TX						
1405	11-9-23	Soil	1	C-1	1	X	X	X	X	X	X								
1409				C-2	2														
1412				C-3	3														
1418				C-4	4														
1421				C-5	5														
1442				C-6	6														
1451				SW-1	7														
1453				SW-2	8														
1454				SW-3	9														
1459				SW-4	10														
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: Y/N		Lab Use Only		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
<u>Middlebury</u>		11-9-23		1730		<u>Middlebury</u>		11-9-23		1830		T1 T2 T3		Y					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C							
<u>Andra</u>		11-9-23		2400		<u>Kevin</u>		11/10/23		7:00		4							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
<u>Andra</u>		11-9-23		2400		<u>Kevin</u>		11/10/23		7:00									
Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotec



envirotec

Envirotech Analytical Laboratory

Printed: 11/13/2023 11:24:21AM

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:	11/10/23 07:00	Work Order ID:	E311087
Phone:	(972) 371-5200	Date Logged In:	11/10/23 10:17	Logged In By:	Raina Schwanz
Email:		Due Date:	11/16/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Samples and COC did not include sampler name.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Talon LPE

Project Name: Dr.k South Tank Battery

Work Order: E311228

Job Number: 23052-0001

Received: 11/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/6/23



Chad Hensley
408 W Texas Ave
Artesia, NM 88210

Project Name: Dr.k South Tank Battery
Workorder: E311228
Date Received: 11/30/2023 7:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2023 7:30:00AM, under the Project Name: Dr.k South Tank Battery.

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

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

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

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

Respectfully,

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Sample Summary

Talon LPE	Project Name:	Dr.k South Tank Battery	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	12/06/23 15:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-7 4.5'	E311228-01A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-8 4.5'	E311228-02A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-9 4.5'	E311228-03A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-10 4.5'	E311228-04A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.



Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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C-7 4.5'

E311228-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.8 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>	92.2 %	50-200		12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349010	
Chloride	7810	200	10	12/04/23	12/04/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Dr.k South Tank Battery
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
12/6/2023 3:03:45PM

C-8 4.5'

E311228-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.2 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>	93.4 %	50-200		12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349010	
Chloride	8530	200	10	12/04/23	12/04/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Dr.k South Tank Battery
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
12/6/2023 3:03:45PM

C-9 4.5'

E311228-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>92.5 %</i>	<i>70-130</i>		<i>11/30/23</i>	<i>12/02/23</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>97.1 %</i>	<i>70-130</i>		<i>11/30/23</i>	<i>12/02/23</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>	<i>90.6 %</i>	<i>50-200</i>		<i>12/05/23</i>	<i>12/06/23</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349010	
Chloride	7840	200	10	12/04/23	12/04/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Dr.k South Tank Battery
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
12/6/2023 3:03:45PM

C-10 4.5'

E311228-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349010
Chloride	6950	200	10	12/04/23	12/04/23	



QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348091-BLK1)

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

LCS (2348091-BS1)

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike (2348091-MS1)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.07	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2348091-MSD1)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.00	0.0250	5.00	ND	100	54-133	3.34	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	2.46	20	
Toluene	4.97	0.0250	5.00	ND	99.5	61-130	3.19	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	2.67	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	2.79	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.8	63-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			



QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Project Number: Project Manager:	Dr.k South Tank Battery 23052-0001 Chad Hensley	Reported: 12/6/2023 3:03:45PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348091-BLK1)

Prepared: 11/30/23 Analyzed: 12/01/23

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

LCS (2348091-BS2)

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2348091-MS2)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			

Matrix Spike Dup (2348091-MSD2)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130	2.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Project Number: Project Manager:	Dr.k South Tank Battery 23052-0001 Chad Hensley	Reported: 12/6/2023 3:03:45PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349027-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.0		50.0		96.0	50-200			

LCS (2349027-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: <i>n</i> -Nonane	44.6		50.0		89.3	50-200			

Matrix Spike (2349027-MS1)

Source: E311232-03

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	3270	250	250	2080	477	38-132			M4
Surrogate: <i>n</i> -Nonane	39.8		50.0		79.6	50-200			

Matrix Spike Dup (2349027-MSD1)

Source: E311232-03

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	2000	250	250	2080	NR	38-132	48.4	20	M4, R2
Surrogate: <i>n</i> -Nonane	38.7		50.0		77.3	50-200			



QC Summary Data

Talon LPE	Project Name:	Dr.k South Tank Battery	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	12/6/2023 3:03:45PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349010-BLK1)				Prepared: 12/04/23 Analyzed: 12/04/23					
Chloride	ND	20.0							
LCS (2349010-BS1)				Prepared: 12/04/23 Analyzed: 12/04/23					
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2349010-MS1)				Source: E311228-03		Prepared: 12/04/23 Analyzed: 12/04/23			
Chloride	7460	200	250	7840	NR	80-120			M4
Matrix Spike Dup (2349010-MSD1)				Source: E311228-03		Prepared: 12/04/23 Analyzed: 12/04/23			
Chloride	7500	200	250	7840	NR	80-120	0.479	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

Talon LPE	Project Name:	Dr.k South Tank Battery	
408 W Texas Ave	Project Number:	23052-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	12/06/23 15:03

- 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.
- R2 The RPD exceeded the acceptance limit.
- 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.



Additional Instructions:																																							
<p>I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.</p> <p style="text-align: center;">Sampled by:</p> <table border="1"> <tr> <td>Relinquished by: (Signature)</td> <td>Date</td> <td>Time</td> <td>Received by: (Signature)</td> <td>Date</td> <td>Time</td> </tr> <tr> <td><i>[Signature]</i></td> <td>11/29/23</td> <td></td> <td><i>[Signature]</i></td> <td>11-29-23</td> <td>1545</td> </tr> <tr> <td>Relinquished by: (Signature)</td> <td>Date</td> <td>Time</td> <td>Received by: (Signature)</td> <td>Date</td> <td>Time</td> </tr> <tr> <td><i>[Signature]</i></td> <td>11-29-23</td> <td>1645</td> <td><i>[Signature]</i></td> <td>11-29-23</td> <td>1700</td> </tr> <tr> <td>Relinquished by: (Signature)</td> <td>Date</td> <td>Time</td> <td>Received by: (Signature)</td> <td>Date</td> <td>Time</td> </tr> <tr> <td><i>[Signature]</i></td> <td>11-29-23</td> <td>2300</td> <td><i>[Signature]</i></td> <td>11/20/23</td> <td>7:30</td> </tr> </table> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____</p> <p>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p>				Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<i>[Signature]</i>	11/29/23		<i>[Signature]</i>	11-29-23	1545	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<i>[Signature]</i>	11-29-23	1645	<i>[Signature]</i>	11-29-23	1700	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<i>[Signature]</i>	11-29-23	2300	<i>[Signature]</i>	11/20/23	7:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																		
<i>[Signature]</i>	11/29/23		<i>[Signature]</i>	11-29-23	1545																																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																		
<i>[Signature]</i>	11-29-23	1645	<i>[Signature]</i>	11-29-23	1700																																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																		
<i>[Signature]</i>	11-29-23	2300	<i>[Signature]</i>	11/20/23	7:30																																		
<p>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.</p> <p>Received on ice: <u>Y / N</u></p> <p>T1 _____ T2 _____ T3 _____</p> <p>AVG Temp °C <u>4</u></p>																																							
<p>Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.</p>																																							

Page 14 of 15

Envirotech Analytical Laboratory

Printed: 11/30/2023 8:08:24AM

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:	Talon LPE	Date Received:	11/30/23 07:30	Work Order ID:	E311228
Phone:	(575) 746-8768	Date Logged In:	11/30/23 08:03	Logged In By:	Jordan Montano
Email:	chensley@talonlpe.com	Due Date:	12/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Manager not listed on COC per client. Chad Hensley.

Sampled by not provided on COC per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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QUESTIONS

Action 521369

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2126643846
Incident Name	NAPP2126643846 DR. K SOUTH TANK BATTERY @ FAPP2203429889
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2203429889] Dr. K South Facility Flare Stack

Location of Release Source

Please answer all the questions in this group.

Site Name	DR. K SOUTH TANK BATTERY
Date Release Discovered	09/22/2021
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 Producing Well Produced Water Released: 16 BBL Recovered: 0 BBL Lost: 16 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)	Corrosion on T joint leading to Separator.

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QUESTIONS, Page 2

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
----------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2300
GRO+DRO (EPA SW-846 Method 8015M)	1300
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	09/17/2025
On what date will (or did) the final sampling or liner inspection occur	09/22/2025
On what date will (or was) the remediation complete(d)	09/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	1000
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	1000

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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.

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QUESTIONS, Page 4

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	Yes
In which state is the disposal taking place	Orla TX
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	506766
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
What was the (estimated) number of samples that were to be gathered	29
What was the sampling surface area in square feet	3000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	3000
What was the total volume (cubic yards) remediated	1000
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	3000
What was the total volume (in cubic yards) reclaimed	1000
Summarize any additional remediation activities not included by answers (above)	N/A
<p><i>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></p>	
<p>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.</p>	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025

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QUESTIONS, Page 7

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	3000
What was the total volume of replacement material (in cubic yards) for this site	1000
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	02/25/2025
Summarize any additional reclamation activities not included by answers (above)	The site will be reseeded once warmer weather returns and conditions are favorable for grass growth.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. 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	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025

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QUESTIONS, Page 8

Action 521369

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 521369

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	1/13/2026
scott.rodgers	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/13/2026