



23E-04815

## Reclamation Closure

Rattlesnake Federal Unit #001

nKJ1600727914, nOY1711838821

32.0185623, -103.4385986

**Prepared for:**

Devon Energy Production Company, LP

**Prepared by:**

Vertex Resource Services Inc.

**Date:**

July 2025

**Devon Energy Production Company, LP**  
Rattlesnake Federal Unit #001

**Reclamation Closure**  
July 2025

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**Reclamation Closure**  
**Rattlesnake Federal Unit #001**

Prepared for:

**Devon Energy Production Company, LP**  
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Prepared by:

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Carlsbad, New Mexico 88220

*John Rewis*

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John Rewis, B.Sc.  
ENVIRONMENTAL TECHNICIAN, REPORTING

September 2, 2025

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Date

*Sally Carttar*

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Sally Carttar, B.A.  
PROJECT MANAGER, REPORT REVIEW

September 2, 2025

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Date

**Devon Energy Production Company, LP**  
Rattlesnake Federal Unit #001

**Reclamation Closure**  
July 2025

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## **Executive Summary**

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to complete a reclamation closure for the Rattlesnake Federal Unit #001 located on federal land in Unit B, Section 26, Township 26 South, Range 34 East (hereafter referred to as “site”). The site visit was conducted on July 7, 2025.

The site was remediated to reclamation criteria at the time of the incident then backfilled with clean locally sourced material. A sample of the backfill was submitted for laboratory analysis, analyzed for contamination, and found to be below the strictest criteria. The soil quality of the backfill was tested and compared to the soil quality in the surrounding undisturbed pastureland. The soil samples were field tested for pH, nitrogen, phosphorous, and potassium. Results showed samples had comparable nutrient concentrations as the pastureland control.

Devon Energy Production Company, LP  
Rattlesnake Federal Unit #001

Reclamation Closure  
July 2025

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**Devon Energy Production Company, LP**  
Rattlesnake Federal Unit #001

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July 2025

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## 1.0 Introduction

Devon Energy Production Company, LP retained Vertex Resource Services Inc. (Vertex) to complete a reclamation closure for the Rattlesnake Federal Unit #001 located on federal land in Unit B, Section 26, Township 26 South, Range 34 East (hereafter referred to as "site").

This document provides a description of the site, summary of the previous environmental work, and details of the fulfillment of the reclamation criteria for incidents nKJ1600727914 and nOY1711838821.

## 2.0 Site Evaluation

The site had been previously excavated to reclamation criteria by Vertex. The Remediation Closure Report was accepted by New Mexico Oil Conservation Division on May 9, 2025. The release area occurred on the former production pad (Figures 1 and 2).

## 3.0 Reclamation Compliance

### 3.1 Backfill Sample

The location was originally backfilled upon the completion of remediation. A sample of the backfill was collected on December 5, 2024 and analysed for contaminants regulated in *New Mexico Administrative Code* 19.15.29.12 Table 1 by Envirotech, Inc. Laboratory analysis of the original backfill material determined that it did not meet the applicable reclamation standards and the material was subsequently removed from the site. Replacement backfill was imported and sampled on January 14, 2025. Analytical testing performed by Cardinal Laboratories confirmed that the new material complied with the required reclamation specifications (Appendix B).

### 3.2 Production Pad Decommission

The production pad has been decommissioned with all related oil and gas production equipment removed from the location and the former caliche production pad ripped. The rip area covered the incidents and contoured them to match the surrounding area. The reclamation plan for the production pad will be submitted in an independent report from this reclamation closure of the incidents.

### 3.3 Backfill Quality in the Former Production Pad

One backfill sample from each incident was analyzed for soil quality, with nearby historically undisturbed pastureland serving as the control reference. The three samples were collected and field-tested for pH, nitrogen, phosphorus, and potassium concentrations.

The pH was evaluated using a pH indicator and categorized as alkaline, neutral, or acidic. Nutrient concentrations for nitrogen, phosphorus, and potassium were assigned qualitative rankings of very low, low, medium, or high based on optical density. These rankings were standardized by placing the vials against a white background and referencing a color chart. Additionally, visual comparisons of sample opacity were used to assess relative nutrient concentrations between the backfill and control samples.

Results indicated that the PH of the backfills were slightly alkaline while the pastureland control was neutral. Nitrogen levels in both the northern and southern backfill areas were classified as very low, consistent with the very low nitrogen content observed in the pastureland control. Phosphorus levels in the backfills were high, compared to medium in the pastureland. Potassium concentrations were medium in both the backfill and the pastureland samples, indicating similarity (Appendix A).

Based on these results, the nutrient profile of the backfill material is generally comparable to that of the surrounding undisturbed pastureland, supporting its suitability for reclamation use (Appendix B).

### **3.4 Regrowth in the Former Production Pad**

The former production pad release areas are mostly void of vegetation. The major species present were native grasses and flowers. The surrounding undisturbed pastureland was primarily composed of sparsely populated Honey Mesquite with interspersed native flora. The while the flora does not necessarily match the surrounding landscape, mesquite-dominated landscapes are often a result of overgrazing or a late-stage succession, suggesting the clean nutrient rich topsoil may be being naturally revegetated by the interspersed flora in the pastureland.

## **4.0 Revegetation Plan and Monitoring Program**

The seeding of the incidents, per the landowners' guidelines, will occur as a part of the reclamation of the decommissioned production pad. Post seeding, bi-annual inspections will be conducted during the growing season to monitor site progression and assess the need for any additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented.

### **4.1 Final Assessment**

During the bi-annual inspections, if site conditions are at or nearing background conditions, a final revegetation report will be completed. The report will provide a summary of restoration work performed, a summary and interpretation of monitoring data collected, and interpretation of historical monitoring data, if applicable.

## **5.0 Reclamation Closure Request**

Vertex Resource Group requests on behalf of Devon Energy that Reclamation Closure is accepted for incident nKJ1600727914, nOY1711838821.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or [scarttar@vertexresource.com](mailto:scarttar@vertexresource.com)

## **6.0 Limitations**

This report has been prepared for the sole benefit of Devon Energy. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land

**Devon Energy Production Company, LP**  
Rattlesnake Federal Unit #001

**Reclamation Closure**  
July 2025

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Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

## FIGURE



- Base Sample (Prefixed by "BS24-")
- ▲ Wall Sample (Prefixed by "WS24-")
- ⬭ Approximate Lease Boundary
- ⬭ Excavation to 1' bgs (~ 2,342 sq. ft. | 200 ft.)
- ⬭ Excavation to 3' bgs (~ 1,122 sq. ft. | 152 ft.)
- ⬭ Excavation to 4' bgs (~ 405 sq.ft. | 100 ft.)
- ⬭ Excavation to 4' bgs (~7,488 sq. ft. | 344 ft.)



0 10 20 40 ft  
 NAD 1983 UTM Zone 13N  
 Date: Dec 12/24

Map Center:  
 Lat: 32.018342°N  
 Long: 103.438494°W

**Confirmation Site Sampling Schematic**  
**Rattlesnake Federal Unit #001**



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Georeferenced image from Esri, 2023. Approximate lease boundary from imagery by Vertex Professional Services Ltd. (VPS), 2024. Site features from GPS by VPS, 2024.

Document Path: S:\04 - Geomatics\1-Projects\US PROJECTS\Devon Energy Corporation\2023\23E-04816 - Rattlesnake Federal Unit #001\Project\23E-04816.aprx

## TABLE

Client Name: Devon Energy Production Company, LP  
 Site Name: Rattlesnake Federal Unit #001  
 NMOCD Tracking #: nOY1711838821 and nKJ1600727914  
 Project #: 24E-04918  
 Lab Report #: E412065, E412066, E412067, E412068, and H250259

Table 1. Confirmation Sample Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	GRO + DRO (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
										Chloride Concentration (mg/kg)
Depth to Groundwater >100'										
BS24-01	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	228
BS24-02	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	224
BS24-03	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	168
BS24-04	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	187
BS24-05	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	149
BS24-06	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	169
BS24-07	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	201
BS24-08	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	154
BS24-09	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	127
BS24-10	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	148
BS24-11	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	196
BS24-12	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	122
BS24-13	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	90.4
BS24-14	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	40
BS24-15	1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	77
BS24-16	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-17	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-18	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-19	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	92.1
BS24-20	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	101
BS24-21	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-22	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	81.8
BS24-23	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	87.3
BS24-24	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-25	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	20.3
BS24-26	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	65.9
BS24-27	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	126
BS24-28	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	32.1
BS24-29	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	140
BS24-30	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	89.2
BS24-31	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	185
BS24-32	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	72
BS24-33	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-34	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	189
BS24-35	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	245
BS24-36	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	89.3
BS24-37	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	135
BS24-38	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	62
BS24-39	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP  
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BS24-40	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	29
BS24-41	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	79.5
BS24-42	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	106
BS24-43	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	121
BS24-44	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	106
BS24-45	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
BS24-46	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	79.1
BS24-47	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	56
BS24-48	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	91
BS24-49	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	246
BS24-50	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	83.3
BS24-51	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	181
BS24-52	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	38.9
BS24-53	4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	87.5
BS24-54	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	209
BS24-55	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	158
BS24-56	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	94.2
BS24-57	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	129
BS24-58	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	23
BS24-59	3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	ND
WS24-01	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	108
WS24-02	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	83.4
WS24-03	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	44.7
WS24-04	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	78.3
WS24-05	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	163
WS24-06	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	81.4
WS24-07	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	160
WS24-08	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	200
WS24-09	0-3	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	60.9
WS24-10	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	227
WS24-11	0-4.1	December 5, 2024	ND	ND	ND	ND	ND	ND	ND	168
Backfill	0	December 5, 2024	ND	ND	ND	832	430	<b>832</b>	<b>1262</b>	136
Backfill-2	0	January 14, 2025	ND	ND	ND	ND	ND	ND	ND	64

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

**Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria**

**Bold and green shaded indicates exceedance outside OCD NM Reclamation Closure Criteria**

## **APPENDIX A**



# Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	11/25/2024
Site Location Name:	Rattlesnake Federal Unit 1	Report Run Date:	12/11/2024 6:55 PM
Client Contact Name:	Dale Woodall	API #:	30-025-36928
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

### Summary of Times

Arrived at Site	11/25/2024 9:00 AM
Departed Site	11/25/2024 3:30 PM

### Field Notes

- 13:14** Excavation continued
- 13:15** Samples were taken and tested as excavation took place
- 13:15** North wall of the large excavation was pushed back another 4' due to high chlorides
- 13:16** Excavated material was piled on plastic

### Next Steps & Recommendations

- 1 Continue excavating
- 2 Schedule confirmation sampling event
- 3 North wall will have to be extended as it is still testing above criteria



# Daily Site Visit Report

## Site Photos

Viewing Direction: East



WES24-01 @0' -4'

Viewing Direction: Northeast



WE24-02 @ 0- 4'

Viewing Direction: Southeast



WES24-03 @ 0-1'

Viewing Direction: Northwest



WES24-04



# Daily Site Visit Report

**Viewing Direction: East**



Descriptive Photo:  
Viewing Direction:  
Photo: Mort wall  
Date: 12/11/2024 9:41:24 AM  
Label: BES24-01 through 03 @ 1'

BES24-01 through 03 @ 1'

**Viewing Direction: Northeast**



Descriptive Photo:  
Viewing Direction:  
Photo: Mort wall  
Date: 12/11/2024 9:41:24 AM  
Label: WES24-05 & 0- 4'

WES24-05 & 0- 4'

**Viewing Direction: East**



Descriptive Photo:  
Viewing Direction:  
Photo: Mort wall  
Date: 12/11/2024 9:41:24 AM  
Label: BES24-17@ 4.1'

BES24-17@ 4.1'

**Viewing Direction: East**



Descriptive Photo:  
Viewing Direction:  
Photo: Mort wall  
Date: 12/11/2024 9:41:24 AM  
Label: Mort wall being pushed back

Mort wall being pushed back



# Daily Site Visit Report

Viewing Direction: East
 <p>Descriptive Photo - 01 Viewing Direction: East Desc: Excavation fenced Created: 11/25/2024 2:48:45 PM Lat: 32.018276 - Long: -103.438202</p>
Excavation fenced

Viewing Direction: East
 <p>Descriptive Photo - 01 Viewing Direction: East Desc: Excavation at end of day Created: 11/25/2024 2:48:45 PM Lat: 32.018276 - Long: -103.438202</p>
Excavation at end of day

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Riley Arnold

**Signature:**

  
Signature



# Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	Rattlesnake Federal Unit 1	API #:	30-025-36928
Inspection Date:	7/7/2025		

## Summary of Times

Arrived at Site	7/7/2025 11:30 AM
Departed Site	7/7/2025 2:30 PM

# Daily Site Visit Report



Site Sketch

Site Sketch

# Daily Site Visit Report



## Field Notes

- 11:55** In the morning background information for the site was collected
- 11:55** Completed safety paperwork upon arrival
- 11:56** Identified the area where vertex had excavated in the past
- 12:29** Pad as a whole appears to have been ripped somewhat recently
- 14:16** The soil quality of the backfill and the pastureland is comparable

## Next Steps & Recommendations

1



# Daily Site Visit Report

## Site Photos

**Viewing Direction: Northeast**



Descriptive Photo - 1  
Viewing Direction: Northeast  
Desc: Northern area of former excavation  
Created: 7/7/2025 12:24:50 PM  
Lat:33.018835, Long:-103.438577

Northern area of former excavation

**Viewing Direction: North**



Descriptive Photo - 2  
Viewing Direction: North  
Desc: Native daisies in the northern section of the former excavation  
Created: 7/7/2025 12:24:03 PM  
Lat:33.018705, Long:-103.438577

Native daisies in the northern section of the former excavation

**Viewing Direction: South**



Descriptive Photo - 3  
Viewing Direction: South  
Desc: Southern excavation area  
Created: 7/7/2025 12:43:54 PM  
Lat:33.018912, Long:-103.438577

Southern excavation area has minimal regrowth

**Viewing Direction: Northwest**



Descriptive Photo - 4  
Viewing Direction: Northwest  
Desc: Regrowth occurring near the west edge of the former pad  
Created: 7/7/2025 12:47:18 PM  
Lat:33.018204, Long:-103.438577

Regrowth occurring near the west edge of the former pad



# Daily Site Visit Report



Control sample taken from about 20ft into the pasture south of the former pad



Eastern area of the former pad beginning to show some regrowth



Eastern area of the former pad displays regrowth of several native flowers and grasses



Soil collected from the northern former excavation, the southern former excavation, and in the historic pastureland



# Daily Site Visit Report

Viewing Direction: North



Descriptive Photo - 9  
Viewing Direction: North  
Desc: North excavation backfill soil (left), historic pasture soil (center), and south excavation backfill soil (right)  
Created: 7/7/2025 1:20:33 PM  
Lat:32.018766, Long:-103.437948

North excavation backfill soil (left), historic pasture soil (center), and south excavation backfill soil (right) PH test indicates both backfill samples have a higher PH than the neutral pastureland

Viewing Direction: North



Descriptive Photo - 10  
Viewing Direction: North  
Desc: The nitrogen test (northern backfill on the right compared to the pasture land on the left)  
Created: 7/7/2025 1:38:00 PM  
Lat:32.018775, Long:-103.437877

The nitrogen test (northern backfill on the right compared to the pasture land on the left) indicates that the nitrogen context is very low in both samples



# Daily Site Visit Report

**Viewing Direction: North**

Description Photo - 11  
Viewing Direction: North  
Desc: The phosphorus test (northern backfill) on the right compared to the pasture land on the left  
Created: 7/7/2025 1:30:44 PM  
Lat:38.018776, Long:-108.437687

The phosphorus test (northern backfill on the right compared to the pasture land on the left) indicates that the phosphorus context is high in both samples

**Viewing Direction: North**

Description Photo - 12  
Viewing Direction: North  
Desc: The potassium test (northern backfill) on the right compared to the pasture land on the left  
Created: 7/7/2025 1:38:38 PM  
Lat:38.018767, Long:-108.437677

The potassium test (northern backfill on the right compared to the pasture land on the left) indicates that the potassium context is medium in both samples



# Daily Site Visit Report

**Viewing Direction: North**

**NITROGEN, PHOSPHORUS & POTASH TESTS**  
 Fill a clean jar or can with 1 part soil and 1 water together for at least one minute and settle (30 minutes to 24 hours, depending on soil texture). The clarity of the solution will not affect the test.

Nitrogen	Phosphorus	Potash
High	High	High
Medium	Medium	Medium
Low	Low	Low
Very Low	Very Low	Very Low

**DESCRIPTION PHOTO - 14**  
 Viewing Direction: North  
 Note: The above photo test (southern backfill on the right compared to the pasture land on the left) indicates that the nitrogen context is very low in both samples.  
 Created: 7/7/2025 3:13:46 PM  
 Lab ID: 019709, Large: 500 437677

The nitrogen test (southern backfill on the right compared to the pasture land on the left) indicates that the nitrogen context is very low in both samples

**Viewing Direction: North**

**NITROGEN, PHOSPHORUS & POTASH TESTS**  
 Fill a clean jar or can with 1 part soil and 5 parts water. Thoroughly shake and settle together for at least one minute and then allow the mixture to stand and settle (30 minutes to 24 hours, depending on soil). If the soil is very sandy, it will settle out faster than a coarse sandy soil. The clarity of the solution will not affect the test.

Nitrogen	Phosphorus	Potash
High	High	High
Medium	Medium	Medium
Low	Low	Low
Very Low	Very Low	Very Low

**DESCRIPTION PHOTO - 14**  
 Viewing Direction: North  
 Note: The above photo test (southern backfill on the right compared to the pasture land on the left) indicates that the phosphorus context is high in the pastureland and medium in the southern backfill.  
 Created: 7/7/2025 3:14:12 PM  
 Lab ID: 019709, Large: 500 437677

The phosphorus test (southern backfill on the right compared to the pasture land on the left) indicates that the phosphorus context is high in the pastureland and medium in the southern backfill



# Daily Site Visit Report

**Viewing Direction: North**

**NITROGEN, PHOSPHORUS & P**

Fill a clean jar or can with 1 part soil and 5 parts water. water together for at least one minute and then allow the water to settle (30 minutes to 24 hours, dependent on soil). A fine settle out than a coarse sandy soil. The clarity of the water better, however cloudiness will not affect the accuracy of a test.

Nitrogen	Phosphorus	Potash
High	High	High
Medium	Medium	Medium
Low	Low	Low
Very Low	Very Low	Very Low

Remove the cap that the color of is provided, fill it liquid from one the sediment. Carefully separate the capsules. Place the cap on the tube and a color to develop for 10 minutes. Compare color of soil portion of the plant to results above. If results are the same, repeat the test. Repeat for remaining soil.

*Descriptive Photo - 14  
Viewing Direction: North  
Date: 07/08/2025 2:16:24 PM  
Latitude: 33.9276, Longitude: -113.43722*

The potassium test (southern backfill on the right compared to the pasture land on the left) indicates that the potassium context is medium in both samples

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Katrina Taylor

**Signature:**

A handwritten signature in black ink, appearing to be 'KT', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

## **APPENDIX B**

Report to:  
Chad Hensley



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: Rattlesnake Federal Unit #001

Work Order: E412065

Job Number: 01058-0007

Received: 12/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/12/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 12/12/24



Chad Hensley  
3101 Boyd Drive  
Carlsbad, NM 88220

Project Name: Rattlesnake Federal Unit #001  
Workorder: E412065  
Date Received: 12/10/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 7:00:00AM, under the Project Name: Rattlesnake Federal Unit #001.

The analytical test results summarized in this report with the Project Name: Rattlesnake Federal Unit #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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### Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/24 12:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS24-10 @ 1'	E412065-01A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-9 @ 1'	E412065-02A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-8 @ 1'	E412065-03A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-7 @ 1'	E412065-04A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-6 @ 1'	E412065-05A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-5 @ 1'	E412065-06A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-4 @ 1'	E412065-07A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-3 @ 1'	E412065-08A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-2 @ 1'	E412065-09A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-1 @ 1'	E412065-10A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-11 @ 1'	E412065-11A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-12 @ 4.1'	E412065-12A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-13 @ 4.1'	E412065-13A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-14 @ 4.1'	E412065-14A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-15 @ 1'	E412065-15A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-16 @ 4.1'	E412065-16A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-17 @ 4.1'	E412065-17A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-18 @ 4.1'	E412065-18A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-19 @ 4.1'	E412065-19A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-20 @ 4.1'	E412065-20A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.

### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-10 @ 1'**  
**E412065-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	148	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-9 @ 1'**

**E412065-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		124 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	127	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-8 @ 1'**

**E412065-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		99.9 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	154	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-7 @ 1'**

**E412065-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	201	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-6 @ 1'**

**E412065-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		124 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	169	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-5 @ 1'**

**E412065-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	149	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-4 @ 1'**

**E412065-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	187	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-3 @ 1'**

**E412065-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	168	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-2 @ 1'**

**E412065-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	224	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-1 @ 1'**

**E412065-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	228	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-11 @ 1'**

**E412065-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	196	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-12 @ 4.1'**

**E412065-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	122	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-13 @ 4.1'**

**E412065-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	90.4	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-14 @ 4.1'**

**E412065-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	40.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-15 @ 1'**

**E412065-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	77.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-16 @ 4.1'**

**E412065-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-17 @ 4.1'**

**E412065-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		127 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-18 @ 4.1'**

**E412065-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-19 @ 4.1'**

**E412065-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	92.1	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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**BS24-20 @ 4.1'**

**E412065-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: JM		Batch: 2450030
Chloride	101	20.0	1	12/10/24	12/10/24	



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 12/12/2024 12:51:31PM
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#### 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 (2450023-BLK1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.50		8.00		119	70-130			

#### LCS (2450023-BS1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	4.45	0.0250	5.00		89.0	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.34	0.0250	5.00		86.8	70-130			
p,m-Xylene	8.86	0.0500	10.0		88.6	70-130			
Total Xylenes	13.2	0.0250	15.0		88.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.83		8.00		123	70-130			

#### Matrix Spike (2450023-MS1)

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	4.33	0.0250	5.00	ND	86.6	54-133			
Ethylbenzene	4.21	0.0250	5.00	ND	84.1	61-133			
Toluene	4.28	0.0250	5.00	ND	85.7	61-130			
o-Xylene	4.22	0.0250	5.00	ND	84.5	63-131			
p,m-Xylene	8.59	0.0500	10.0	ND	85.9	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.92		8.00		124	70-130			

#### Matrix Spike Dup (2450023-MSD1)

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	4.36	0.0250	5.00	ND	87.2	54-133	0.700	20	
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133	1.07	20	
Toluene	4.32	0.0250	5.00	ND	86.5	61-130	0.915	20	
o-Xylene	4.25	0.0250	5.00	ND	85.1	63-131	0.692	20	
p,m-Xylene	8.68	0.0500	10.0	ND	86.8	63-131	1.09	20	
Total Xylenes	12.9	0.0250	15.0	ND	86.2	63-131	0.962	20	
Surrogate: 4-Bromochlorobenzene-PID	9.96		8.00		124	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

**Blank (2450023-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130		

**LCS (2450023-BS2)**

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0		80.5	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130		

**Matrix Spike (2450023-MS2)**

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	ND	81.6	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130		

**Matrix Spike Dup (2450023-MSD2)**

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.1	70-130	1.76	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130		



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2450025-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	57.3		50.0		115	50-200			

**LCS (2450025-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			

**Matrix Spike (2450025-MS1)**

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: <i>n</i> -Nonane	51.4		50.0		103	50-200			

**Matrix Spike Dup (2450025-MSD1)**

Source: E412065-05

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	1.36	20	
Surrogate: <i>n</i> -Nonane	48.6		50.0		97.2	50-200			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:51:31PM
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#### Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2450030-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	ND	20.0							
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**LCS (2450030-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	249	20.0	250		99.6	90-110			
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**LCS Dup (2450030-BSD1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	250	20.0	250		99.9	90-110	0.336	20	
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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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/24 12:51
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO# <b>E412065</b>				Job Number <b>01058-0057</b>				1D 2D 3D Std x				NM CO UT TX x			
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista																			
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																			
Address: 3101 Boyd dr.				Phone: 575-689-7597																			
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																			
Phone: 575-200-6167				Miscellaneous:																			
Email: Rarnold@vertexresource.com, Rplogger@vert																							
Sample Information													Analysis and Method				EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED 1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA					
5:44	12/5/24	Soil	1	BS24-10 ② 1'		1	X	X	X		X												
5:42		Soil	1	9		2	X	X	X		X												
8:30		Soil	1	8		3	X	X	X		X												
8:24		Soil	1	7		4	X	X	X		X												
8:20		Soil	1	6		5	X	X	X		X												
8:14		Soil	1	5		6	X	X	X		X												
8:13		Soil	1	4		7	X	X	X		X												
8:07		Soil	1	3		8	X	X	X		X												
8:02		Soil	1	2		9	X	X	X		X												
8:02		Soil	1	1		10	X	X	X		X												
Additional Instructions: WO: 23E-01414 Jim Raley																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by:																							
Relinquished by: (Signature) <i>[Signature]</i>				Date: 12-9-24 Time: 11:00				Received by: (Signature) <i>[Signature]</i>				Date: 12-9-24 Time: 1145				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 5 °C on <u>                    </u> . Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 <u>                    </u> T2 <u>                    </u> T3 <u>                    </u> AVG Temp °C <u>4</u>							
Relinquished by: (Signature) <i>[Signature]</i>				Date: 12-9-24 Time: 11:30				Received by: (Signature) <i>[Signature]</i>				Date: <u>                    </u> Time: <u>                    </u>											
Relinquished by: (Signature) <i>[Signature]</i>				Date: <u>                    </u> Time: <u>                    </u>				Received by: (Signature) <i>[Signature]</i>				Date: 12-9-24 Time: 1630											
Relinquished by: (Signature) <i>[Signature]</i>				Date: 12-9-24 Time: 2230				Received by: (Signature) <i>[Signature]</i>				Date: 12-10-24 Time: 7:00											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other <u>                    </u> Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO# E 412005				Job Number 01058-0007				1D 2D 3D Std				NM CO UT TX			
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista												x							
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																			
Address: 3101 Boyd dr.				Phone: 575-689-7597																			
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																			
Phone: 575-200-6167				Miscellaneous:																			
Email: Rarnold@vertexresource.com, Rplogger@vert																							
Sample Information													Analysis and Method				EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA				
8:46	12/5/2024	Soil	1	BS24-11 @ 1'			11	X	X	X		X											
8:50	12/5/2024	Soil	1	BS24-12 @ 4.1'			12	X	X	X		X											
8:56	12/5/2024	Soil	1	BS24-13 @ 4.1'			13	X	X	X		X											
9:03	12/5/2024	Soil	1	BS24-14 @ 4.1'			14	X	X	X		X											
9:10	12/5/2024	Soil	1	BS24-15 @ 1'			15	X	X	X		X											
9:15	12/5/2024	Soil	1	BS24-16 @ 4.1'			16	X	X	X		X											
9:22	12/5/2024	Soil	1	BS24-17 @ 4.1'			17	X	X	X		X											
9:30	12/5/2024	Soil	1	BS24-18 @ 4.1'			18	X	X	X		X											
9:36	12/5/2024	Soil	1	BS24-19 @ 4.1'			19	X	X	X		X											
9:41	12/5/2024	Soil	1	BS24-20 @ 4.1'			20	X	X	X		X											
Additional Instructions: WO: 23E-01414 Jim Raley																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Riley Arnold																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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											
<i>Riley Arnold</i>		12-9-24		11:00		<i>Jim Raley</i>		12-9-24		11:45		Lab Use Only											
<i>Chad Hensley</i>		12-9-24		16:30		<i>Chad Hensley</i>		12-9-24		16:30		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
<i>Chad Hensley</i>		12-9-24		9:23:00		<i>Caitlin Mann</i>		12-10-24		7:00		T1 _____ T2 _____ T3 _____											
												AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other													Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Released to Imaging: 2/11/2026 1:40:49 PM

Received by OCD: 9/4/2025 9:52:03 AM

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Envirotech Analytical Laboratory

Printed: 12/10/2024 9:53:18AM

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: Vertex Resource Services Inc. Date Received: 12/10/24 07:00 Work Order ID: E412065
Phone: (575) 748-0176 Date Logged In: 12/09/24 16:07 Logged In By: Noe Soto
Email: chensley@vertexresources.com Due Date: 12/16/24 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: Courier

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Empty box for client instructions.

Comments/Resolution

Project Rattlesnake Federal Unit #001 has been seprted into mutiple WOs due to high sample volume. WOs are E412065-E412068.

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

Vertex Resource Services Inc.

Project Name: Rattlesnake Federal Unit #001

Work Order: E412066

Job Number: 01058-0007

Received: 12/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/12/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 12/12/24



Chad Hensley  
3101 Boyd Drive  
Carlsbad, NM 88220

Project Name: Rattlesnake Federal Unit #001  
Workorder: E412066  
Date Received: 12/10/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 7:00:00AM, under the Project Name: Rattlesnake Federal Unit #001.

The analytical test results summarized in this report with the Project Name: Rattlesnake Federal Unit #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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BS24-25 @ 4.1'	10
BS24-26 @ 4.1'	11
BS24-27 @ 4.1'	12
BS24-28 @ 4.1'	13
BS24-29 @ 4.1'	14
BS24-30 @ 4.1'	15
BS24-31 @ 4.1'	16
BS24-32 @ 4.1'	17
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## Sample Summary

Vertex Resource Services Inc.  
3101 Boyd Drive  
Carlsbad NM, 88220

Project Name: Rattlesnake Federal Unit #001  
Project Number: 01058-0007  
Project Manager: Chad Hensley

**Reported:**  
12/12/24 12:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS24-21 @ 4.1'	E412066-01A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-22 @ 4.1'	E412066-02A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-23 @ 4.1'	E412066-03A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-24 @ 4.1'	E412066-04A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-25 @ 4.1'	E412066-05A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-26 @ 4.1'	E412066-06A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-27 @ 4.1'	E412066-07A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-28 @ 4.1'	E412066-08A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-29 @ 4.1'	E412066-09A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-30 @ 4.1'	E412066-10A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-31 @ 4.1'	E412066-11A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-32 @ 4.1'	E412066-12A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-33 @ 4.1'	E412066-13A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-34 @ 4.1'	E412066-14A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-35 @ 4.1'	E412066-15A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-36 @ 4.1'	E412066-16A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-37 @ 4.1'	E412066-17A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-38 @ 4.1'	E412066-18A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-39 @ 4.1'	E412066-19A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-40 @ 4.1'	E412066-20A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-21 @ 4.1'**

**E412066-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-22 @ 4.1'**

**E412066-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.9 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	81.8	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-23 @ 4.1'**

**E412066-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.7 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	87.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-24 @ 4.1'**

**E412066-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.2 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-25 @ 4.1'**

**E412066-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.1 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	20.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-26 @ 4.1'**

**E412066-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	65.9	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-27 @ 4.1'**

**E412066-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.3 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	126	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-28 @ 4.1'**

**E412066-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.1 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	32.1	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-29 @ 4.1'**

**E412066-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.6 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	140	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-30 @ 4.1'**

**E412066-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.2 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	89.2	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-31 @ 4.1'**

**E412066-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.1 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.4 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	185	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-32 @ 4.1'**

**E412066-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.8 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	72.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-33 @ 4.1'**

**E412066-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		83.5 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-34 @ 4.1'**

**E412066-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.3 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	189	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-35 @ 4.1'**

**E412066-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.0 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	245	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-36 @ 4.1'**

**E412066-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.5 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	89.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-37 @ 4.1'**

**E412066-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.2 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	135	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-38 @ 4.1'**

**E412066-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		83.0 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.6 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	62.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-39 @ 4.1'**

**E412066-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.8 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.9 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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**BS24-40 @ 4.1'**

**E412066-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Benzene	ND	0.0250	1	12/10/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/12/24	
Toluene	ND	0.0250	1	12/10/24	12/12/24	
o-Xylene	ND	0.0250	1	12/10/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.3 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.4 %	70-130	12/10/24	12/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2450035
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450033
Chloride	29.0	20.0	1	12/10/24	12/10/24	



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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#### 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 (2450027-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			

#### LCS (2450027-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.53	0.0250	5.00		90.7	70-130			
Ethylbenzene	4.44	0.0250	5.00		88.8	70-130			
Toluene	4.52	0.0250	5.00		90.4	70-130			
o-Xylene	4.44	0.0250	5.00		88.8	70-130			
p,m-Xylene	9.03	0.0500	10.0		90.3	70-130			
Total Xylenes	13.5	0.0250	15.0		89.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.9	70-130			

#### Matrix Spike (2450027-MS1)

Source: E412066-05

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.36	0.0250	5.00	ND	87.2	54-133			
Ethylbenzene	4.27	0.0250	5.00	ND	85.5	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.27	0.0250	5.00	ND	85.5	63-131			
p,m-Xylene	8.70	0.0500	10.0	ND	87.0	63-131			
Total Xylenes	13.0	0.0250	15.0	ND	86.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

#### Matrix Spike Dup (2450027-MSD1)

Source: E412066-05

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.53	0.0250	5.00	ND	90.6	54-133	3.78	20	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	61-133	4.02	20	
Toluene	4.53	0.0250	5.00	ND	90.6	61-130	4.02	20	
o-Xylene	4.43	0.0250	5.00	ND	88.7	63-131	3.72	20	
p,m-Xylene	9.05	0.0500	10.0	ND	90.5	63-131	3.96	20	
Total Xylenes	13.5	0.0250	15.0	ND	89.9	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	6.89		8.00		86.2	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
--	--	---

#### 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 (2450027-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.2	70-130			

**LCS (2450027-BS2)**

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

**Matrix Spike (2450027-MS2)**

Source: E412066-05

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	39.5	20.0	50.0	ND	79.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

**Matrix Spike Dup (2450027-MSD2)**

Source: E412066-05

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.5	70-130	5.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
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#### 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 (2450035-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

**LCS (2450035-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

**Matrix Spike (2450035-MS1)**

Source: E412066-10

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

**Matrix Spike Dup (2450035-MSD1)**

Source: E412066-10

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132	4.25	20	
Surrogate: n-Nonane	56.0		50.0		112	50-200			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:55:54PM
--	--	---

#### 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 (2450033-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	ND	20.0							
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**LCS (2450033-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	256	20.0	250		103	90-110			
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**LCS Dup (2450033-BSD1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	259	20.0	250		103	90-110	0.799	20	
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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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/24 12:55
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State													
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX			
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E412066		010580051								x		x									
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																									
Address: 3101 Boyd dr.				Phone: 575-689-7597																									
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																									
Phone: 575-200-6167				Miscellaneous:																									
Email: Rarnold@vertexresource.com, Rplogger@vert																													
Sample Information																													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	ICELQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks					
9:49	12/5/2024	Soil	1	BS24-21 @ 4.1'		1	X	X	X		X																		
9:56	12/5/2024	Soil	1	BS24-22 @ 4.1'		2	X	X	X		X																		
10:02	12/5/2024	Soil	1	BS24-23 @ 4.1'		3	X	X	X		X																		
10:09	12/5/2024	Soil	1	BS24-24 @ 4.1'		4	X	X	X		X																		
10:16	12/5/2024	Soil	1	BS24-25 @ 4.1'		5	X	X	X		X																		
10:22	12/5/2024	Soil	1	BS24-26 @ 4.1'		6	X	X	X		X																		
10:30	12/5/2024	Soil	1	BS24-27 @ 4.1'		7	X	X	X		X																		
10:37	12/5/2024	Soil	1	BS24-28 @ 4.1'		8	X	X	X		X																		
10:42	12/5/2024	Soil	1	BS24-29 @ 4.1'		9	X	X	X		X																		
11:00	12/5/2024	Soil	1	BS24-30 @ 4.1'		10	X	X	X		X																		
Additional Instructions: WO: 23E-01414 Jim Raley																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																													
Sampled by: Riley Arnold																													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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																	
<i>[Signature]</i>		12-9-24		11:00		<i>[Signature]</i>		12-9-24		11:45		Lab Use Only																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N																	
<i>[Signature]</i>		12-9-24		16:30		<i>[Signature]</i>		12-9-24		16:30		T1 _____ T2 _____ T3 _____																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>																	
<i>[Signature]</i>		12-9-24		22:30		<i>[Signature]</i>		12-10-24		7:00																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																													



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Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO# E41206				Job Number 901058-0051				1D 2D 3D Std				NM CO UT TX			
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista												x							
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																			
Address: 3101 Boyd dr.				Phone: 575-689-7597																			
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																			
Phone: 575-200-6167				Miscellaneous:																			
Email: Rarnold@vertexresource.com, Rplogger@vert																							
Sample Information														Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	ICEO.1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA				
11:05	12/5/2024	Soil	1	BS24-31 @ 4.1'			11	X	X	X		X											
11:11	12/5/2024	Soil	1	BS24-32 @ 4.1'			12	X	X	X		X											
11:18	12/5/2024	Soil	1	BS24-33 @ 4.1'			13	X	X	X		X											
11:25	12/5/2024	Soil	1	BS24-34 @ 4.1'			14	X	X	X		X											
11:33	12/5/2024	Soil	1	BS24-35 @ 4.1'			15	X	X	X		X											
11:37	12/5/2024	Soil	1	BS24-36 @ 4.1'			16	X	X	X		X											
11:42	12/5/2024	Soil	1	BS24-37 @ 4.1'			17	X	X	X		X											
11:58	12/5/2024	Soil	1	BS24-38 @ 4.1'			18	X	X	X		X											
12:00	12/5/2024	Soil	1	BS24-39 @ 4.1'			19	X	X	X		X											
12:05	12/5/2024	Soil	1	BS24-40 @ 4.1'			20	X	X	X		X											
Additional Instructions: WO: 23E-01414 Jim Raley																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Riley Arnold																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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											
<i>Riley Arnold</i>		12-9-24		11:00		<i>J Raley</i>		12-9-24		11:45		Lab Use Only											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N											
<i>Chad Hensley</i>		12-9-24		1630		<i>Chad Hensley</i>		12-9-24		1630		T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>											
<i>Chad Hensley</i>		12-9-24		2230		<i>Caitlin Mann</i>		12-10-24		7:00													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time													
<i>Chad Hensley</i>		12-9-24		2230		<i>Caitlin Mann</i>		12-10-24		7:00													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Envirotech Analytical Laboratory

Printed: 12/10/2024 10:00:17AM

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: Vertex Resource Services Inc. Date Received: 12/10/24 07:00 Work Order ID: E412066
Phone: (575) 748-0176 Date Logged In: 12/09/24 16:15 Logged In By: Noe Soto
Email: chensley@vertexresources.com Due Date: 12/16/24 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Empty box for client instructions.

Comments/Resolution

Project Rattlesnake Federal Unit #001 has been seprted into mutiple WOs due to high sample volume. WOs are E412065-E412068.

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

Vertex Resource Services Inc.

Project Name: Rattlesnake Federal Unit #001

Work Order: E412067

Job Number: 01058-0007

Received: 12/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/13/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 12/13/24

Chad Hensley  
3101 Boyd Drive  
Carlsbad, NM 88220

Project Name: Rattlesnake Federal Unit #001  
Workorder: E412067  
Date Received: 12/10/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 7:00:00AM, under the Project Name: Rattlesnake Federal Unit #001.

The analytical test results summarized in this report with the Project Name: Rattlesnake Federal Unit #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
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Office: 505-421-LABS(5227)  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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### Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/24 08:51
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS24-41 @ 4.1'	E412067-01A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-42 @ 4.1'	E412067-02A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-43 @ 4.1'	E412067-03A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-44 @ 4.1'	E412067-04A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-45 @ 4.1'	E412067-05A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-46 @ 4.1'	E412067-06A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-47 @ 4.1'	E412067-07A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-48 @ 4.1'	E412067-08A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-49 @ 4.1'	E412067-09A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-50 @ 4.1'	E412067-10A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-51 @ 4.1'	E412067-11A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-52 @ 4.1'	E412067-12A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-53 @ 4.1'	E412067-13A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-54 @ 3'	E412067-14A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-55 @ 3'	E412067-15A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-56 @ 3'	E412067-16A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-57 @ 3'	E412067-17A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-58 @ 3'	E412067-18A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-59 @ 3'	E412067-19A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
Backfill Material	E412067-20A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-41 @ 4.1'**

**E412067-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2450037	
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	

<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2450037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	

<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2450036	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/10/24	

<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2450034	
Chloride	79.5	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-42 @ 4.1'**

**E412067-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	106	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-43 @ 4.1'**

**E412067-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	121	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-44 @ 4.1'**

**E412067-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	106	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-45 @ 4.1'**

**E412067-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-46 @ 4.1'**

**E412067-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	79.1	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-47 @ 4.1'**

**E412067-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		92.5 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		92.5 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	56.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-48 @ 4.1'**

**E412067-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	91.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-49 @ 4.1'**

**E412067-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		127 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	246	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-50 @ 4.1'**

**E412067-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	83.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-51 @ 4.1'**

**E412067-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	181	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-52 @ 4.1'**

**E412067-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	38.9	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-53 @ 4.1'**

**E412067-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	87.5	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-54 @ 3'**

**E412067-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	209	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-55 @ 3'**

**E412067-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	158	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-56 @ 3'**

**E412067-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	94.2	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-57 @ 3'**

**E412067-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	129	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-58 @ 3'**

**E412067-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	23.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-59 @ 3'**

**E412067-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### Backfill Material

#### E412067-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	832	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	430	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	136	20.0	1	12/10/24	12/10/24	



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 12/13/2024 8:51:13AM
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#### Volatile Organic Compounds by EPA 8260B

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 (2450037-BLK1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### LCS (2450037-BS1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	2.07	0.0250	2.50		82.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		89.8	70-130			
Toluene	2.20	0.0250	2.50		88.1	70-130			
o-Xylene	2.32	0.0250	2.50		92.9	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.89	0.0250	7.50		91.9	70-130			
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### Matrix Spike (2450037-MS1)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	2.17	0.0250	2.50	ND	86.7	48-131			
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135			
Toluene	2.22	0.0250	2.50	ND	88.7	48-130			
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135			
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135			
Total Xylenes	7.12	0.0250	7.50	ND	95.0	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

#### Matrix Spike Dup (2450037-MSD1)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	2.16	0.0250	2.50	ND	86.3	48-131	0.416	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.6	45-135	0.921	27	
Toluene	2.23	0.0250	2.50	ND	89.1	48-130	0.382	24	
o-Xylene	2.44	0.0250	2.50	ND	97.7	43-135	1.34	27	
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135	0.793	27	
Total Xylenes	7.19	0.0250	7.50	ND	95.9	43-135	0.978	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### 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 (2450037-BLK1)

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### LCS (2450037-BS2)

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

#### Matrix Spike (2450037-MS2)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

#### Matrix Spike Dup (2450037-MSD2)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	2.44	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2450036-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.1		50.0		116	50-200			

**LCS (2450036-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

**Matrix Spike (2450036-MS1)**

Source: E412067-01

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132			
Surrogate: n-Nonane	63.4		50.0		127	50-200			

**Matrix Spike Dup (2450036-MSD1)**

Source: E412067-01

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132	5.81	20	
Surrogate: n-Nonane	60.2		50.0		120	50-200			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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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 (2450034-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	ND	20.0							
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**LCS (2450034-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	251	20.0	250		100	90-110			
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**LCS Dup (2450034-BSD1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	251	20.0	250		100	90-110	0.109	20	
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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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/24 08:51
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO# E412067				Job Number 01058-0057				1D 2D 3D Std				NM CO UT TX							
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista												x											
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																							
Address: 3101 Boyd dr.				Phone: 575-689-7597																							
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																							
Phone: 575-200-6167				Miscellaneous:																							
Email: Rarnold@vertexresource.com, Rplogger@vert																											
Sample Information																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED 1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks		
12:10	12/5/2024	Soil	1	BS24-41 @ 4.1'			1	X	X	X		X															
12:19	12/5/2024	Soil	1	BS24-42 @ 4.1'			2	X	X	X		X															
12:24	12/5/2024	Soil	1	BS24-43 @ 4.1'			3	X	X	X		X															
12:30	12/5/2024	Soil	1	BS24-44 @ 4.1'			4	X	X	X		X															
12:36	12/5/2024	Soil	1	BS24-45 @ 4.1'			5	X	X	X		X															
12:40	12/5/2024	Soil	1	BS24-46 @ 4.1'			6	X	X	X		X															
12:46	12/5/2024	Soil	1	BS24-47 @ 4.1'			7	X	X	X		X															
12:53	12/5/2024	Soil	1	BS24-48 @ 4.1'			8	X	X	X		X															
1:00	12/5/2024	Soil	1	BS24-49 @ 4.1'			9	X	X	X		X															
1:06	12/5/2024	Soil	1	BS24-50 @ 4.1'			10	X	X	X		X															
Additional Instructions: WO: 23E-01414 Jim Raley																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Riley Arnold																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 5 °C on the day they are sampled.															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

Released to Imaging: 2/11/2026 1:40:49 PM

Received by OCD: 9/4/2025 9:52:03 AM



Page 129 of 200

Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX								
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E412007		01058-0007					x	x											
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																							
Address: 3101 Boyd dr.				Phone: 575-689-7597																							
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																							
Phone: 575-200-6167				Miscellaneous:																							
Email: Rarnold@vertexresource.com, Rplogger@vert																											
Sample Information																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks		
1:11	12/5/2024	Soil	1	BS24-51 @ 4.1'			11	X	X	X	X																
1:19	12/5/2024	Soil	1	BS24-52 @ 4.1'			12	X	X	X	X																
1:27	12/5/2024	Soil	1	BS24-53 @ 4.1'			13	X	X	X	X																
1:33	12/5/2024	Soil	1	BS24-54 @ 3'			14	X	X	X	X																
1:40	12/5/2024	Soil	1	BS24-55 @ 3'			15	X	X	X	X																
1:47	12/5/2024	Soil	1	BS24-56 @ 3'			16	X	X	X	X																
1:54	12/5/2024	Soil	1	BS24-57 @ 3'			17	X	X	X	X																
2:03	12/5/2024	Soil	1	BS24-58 @ 3'			18	X	X	X	X																
2:10	12/5/2024	Soil	1	BS24-59 @ 3'			19	X	X	X	X																
4:00	12/5/2024	Soil	1	Backfill Material			20	X	X	X	X																
Additional Instructions: WO: 23E-01414 Jim Raley																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Riley Arnold																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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															
<i>Randy Arnold</i>		12-9-24		11:00		<i>Jim Raley</i>		12-9-24		11:45		Lab Use Only															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N															
<i>John H.</i>		12-9-24		1630		<i>John H.</i>		12-9-24		1630		T1 _____ T2 _____ T3 _____															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>															
<i>John H.</i>		12-9-24		2230		<i>Carlin Mann</i>		12-10-24		7:00																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



### Envirotech Analytical Laboratory

Printed: 12/10/2024 10:08:39AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Vertex Resource Services Inc.	Date Received:	12/10/24 07:00	Work Order ID:	E412067
Phone:	(575) 748-0176	Date Logged In:	12/09/24 16:15	Logged In By:	Noe Soto
Email:	chensley@vertexresources.com	Due Date:	12/16/24 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

Carrier: Courier

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

#### Comments/Resolution

Project Rattlesnake Federal Unit #001 has been seprted into mutiple WOs due to high sample volume. WOs are E412065-E412068.

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

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

#### Sample Container

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

#### Field Label

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

Vertex Resource Services Inc.

Project Name: Rattlesnake Federal Unit #001

Work Order: E412067

Job Number: 01058-0007

Received: 12/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/13/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 12/13/24

Chad Hensley  
3101 Boyd Drive  
Carlsbad, NM 88220

Project Name: Rattlesnake Federal Unit #001  
Workorder: E412067  
Date Received: 12/10/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 7:00:00AM, under the Project Name: Rattlesnake Federal Unit #001.

The analytical test results summarized in this report with the Project Name: Rattlesnake Federal Unit #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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### Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/24 08:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BS24-41 @ 4.1'	E412067-01A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-42 @ 4.1'	E412067-02A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-43 @ 4.1'	E412067-03A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-44 @ 4.1'	E412067-04A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-45 @ 4.1'	E412067-05A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-46 @ 4.1'	E412067-06A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-47 @ 4.1'	E412067-07A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-48 @ 4.1'	E412067-08A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-49 @ 4.1'	E412067-09A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-50 @ 4.1'	E412067-10A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-51 @ 4.1'	E412067-11A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-52 @ 4.1'	E412067-12A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-53 @ 4.1'	E412067-13A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-54 @ 3'	E412067-14A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-55 @ 3'	E412067-15A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-56 @ 3'	E412067-16A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-57 @ 3'	E412067-17A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-58 @ 3'	E412067-18A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
BS24-59 @ 3'	E412067-19A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
Backfill Material	E412067-20A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.

### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-41 @ 4.1'**

**E412067-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2450037	
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	

<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2450037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	

<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2450036	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/10/24	

<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2450034	
Chloride	79.5	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-42 @ 4.1'**

**E412067-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	106	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-43 @ 4.1'**

**E412067-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	121	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-44 @ 4.1'**

**E412067-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		94.3 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	106	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-45 @ 4.1'**

**E412067-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-46 @ 4.1'**

**E412067-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		93.9 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	79.1	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-47 @ 4.1'**

**E412067-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Toluene	ND	0.0250	1	12/10/24	12/10/24	
o-Xylene	ND	0.0250	1	12/10/24	12/10/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		92.5 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
<i>Surrogate: Bromofluorobenzene</i>		92.5 %	70-130	12/10/24	12/10/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	12/10/24	12/10/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/10/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	56.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-48 @ 4.1'**

**E412067-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	91.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-49 @ 4.1'**

**E412067-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
<i>Surrogate: n-Nonane</i>		127 %	50-200	12/10/24	12/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	246	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-50 @ 4.1'**

**E412067-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	83.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-51 @ 4.1'**

**E412067-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	181	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-52 @ 4.1'**

**E412067-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		95.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	38.9	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-53 @ 4.1'**

**E412067-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	87.5	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-54 @ 3'**

**E412067-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	209	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-55 @ 3'**

**E412067-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	158	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-56 @ 3'**

**E412067-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		94.5 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	94.2	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-57 @ 3'**

**E412067-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		92.8 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	129	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-58 @ 3'**

**E412067-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	23.0	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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**BS24-59 @ 3'**

**E412067-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	ND	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### Backfill Material

#### E412067-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	12/10/24	12/11/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/10/24	12/11/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450036
Diesel Range Organics (C10-C28)	832	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	430	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450034
Chloride	136	20.0	1	12/10/24	12/10/24	



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	Reported: 12/13/2024 8:51:13AM
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#### Volatile Organic Compounds by EPA 8260B

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 (2450037-BLK1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### LCS (2450037-BS1)

Prepared: 12/10/24 Analyzed: 12/10/24

Benzene	2.07	0.0250	2.50		82.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		89.8	70-130			
Toluene	2.20	0.0250	2.50		88.1	70-130			
o-Xylene	2.32	0.0250	2.50		92.9	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.89	0.0250	7.50		91.9	70-130			
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### Matrix Spike (2450037-MS1)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	2.17	0.0250	2.50	ND	86.7	48-131			
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135			
Toluene	2.22	0.0250	2.50	ND	88.7	48-130			
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135			
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135			
Total Xylenes	7.12	0.0250	7.50	ND	95.0	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

#### Matrix Spike Dup (2450037-MSD1)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	2.16	0.0250	2.50	ND	86.3	48-131	0.416	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.6	45-135	0.921	27	
Toluene	2.23	0.0250	2.50	ND	89.1	48-130	0.382	24	
o-Xylene	2.44	0.0250	2.50	ND	97.7	43-135	1.34	27	
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135	0.793	27	
Total Xylenes	7.19	0.0250	7.50	ND	95.9	43-135	0.978	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### 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 (2450037-BLK1)

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

#### LCS (2450037-BS2)

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

#### Matrix Spike (2450037-MS2)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

#### Matrix Spike Dup (2450037-MSD2)

Source: E412067-06

Prepared: 12/10/24 Analyzed: 12/10/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	2.44	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2450036-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.1		50.0		116	50-200			

**LCS (2450036-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: <i>n</i> -Nonane	58.3		50.0		117	50-200			

**Matrix Spike (2450036-MS1)**

Source: E412067-01

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132			
Surrogate: <i>n</i> -Nonane	63.4		50.0		127	50-200			

**Matrix Spike Dup (2450036-MSD1)**

Source: E412067-01

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132	5.81	20	
Surrogate: <i>n</i> -Nonane	60.2		50.0		120	50-200			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/2024 8:51:13AM
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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 (2450034-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	ND	20.0							
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**LCS (2450034-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	251	20.0	250		100	90-110			
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**LCS Dup (2450034-BSD1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	251	20.0	250		100	90-110	0.109	20	
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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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/13/24 08:51
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E412067		01058-0057					X	X			
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220															
Address: 3101 Boyd dr.				Phone: 575-689-7597															
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com															
Phone: 575-200-6167				Miscellaneous:															
Email: Rarnold@vertexresource.com, Rplogger@vert																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED 1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA
12:10	12/5/2024	Soil	1	BS24-41 @ 4.1'			1	X	X	X		X							
12:19	12/5/2024	Soil	1	BS24-42 @ 4.1'			2	X	X	X		X							
12:24	12/5/2024	Soil	1	BS24-43 @ 4.1'			3	X	X	X		X							
12:30	12/5/2024	Soil	1	BS24-44 @ 4.1'			4	X	X	X		X							
12:36	12/5/2024	Soil	1	BS24-45 @ 4.1'			5	X	X	X		X							
12:40	12/5/2024	Soil	1	BS24-46 @ 4.1'			6	X	X	X		X							
12:46	12/5/2024	Soil	1	BS24-47 @ 4.1'			7	X	X	X		X							
12:53	12/5/2024	Soil	1	BS24-48 @ 4.1'			8	X	X	X		X							
1:00	12/5/2024	Soil	1	BS24-49 @ 4.1'			9	X	X	X		X							
1:06	12/5/2024	Soil	1	BS24-50 @ 4.1'			10	X	X	X		X							
Additional Instructions: WO: 23E-01414 Jim Raley																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Riley Arnold																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 5 °C on the day they are sampled. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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Received by OCD: 9/4/2025 9:52:03 AM

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Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX								
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E412007		01058-0007					x	x											
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220																							
Address: 3101 Boyd dr.				Phone: 575-689-7597																							
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com																							
Phone: 575-200-6167				Miscellaneous:																							
Email: Rarnold@vertexresource.com, Rplogger@vert																											
Sample Information																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks		
1:11	12/5/2024	Soil	1	BS24-51 @ 4.1'			11	X	X	X	X																
1:19	12/5/2024	Soil	1	BS24-52 @ 4.1'			12	X	X	X	X																
1:27	12/5/2024	Soil	1	BS24-53 @ 4.1'			13	X	X	X	X																
1:33	12/5/2024	Soil	1	BS24-54 @ 3'			14	X	X	X	X																
1:40	12/5/2024	Soil	1	BS24-55 @ 3'			15	X	X	X	X																
1:47	12/5/2024	Soil	1	BS24-56 @ 3'			16	X	X	X	X																
1:54	12/5/2024	Soil	1	BS24-57 @ 3'			17	X	X	X	X																
2:03	12/5/2024	Soil	1	BS24-58 @ 3'			18	X	X	X	X																
2:10	12/5/2024	Soil	1	BS24-59 @ 3'			19	X	X	X	X																
4:00	12/5/2024	Soil	1	Backfill Material			20	X	X	X	X																
Additional Instructions: WO: 23E-01414 Jim Raley																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Riley Arnold																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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															
<i>Randy Arnold</i>		12-9-24		11:00		<i>Jim Raley</i>		12-9-24		11:45		Lab Use Only															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N															
<i>John H.</i>		12-9-24		1630		<i>John H.</i>		12-9-24		1630		T1 _____ T2 _____ T3 _____															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>															
<i>John H.</i>		12-9-24		2230		<i>Carlin Mann</i>		12-10-24		7:00																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Sample Matrix: S - Soil, <u>Sd</u> - Solid, Sg - Sludge, A - Aqueous, O - Other _____																											
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

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Envirotech Analytical Laboratory

Printed: 12/10/2024 10:08:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Vertex Resource Services Inc. Date Received: 12/10/24 07:00 Work Order ID: E412067
Phone: (575) 748-0176 Date Logged In: 12/09/24 16:15 Logged In By: Noe Soto
Email: chensley@vertexresources.com Due Date: 12/16/24 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Empty box for client instruction.

Comments/Resolution

Project Rattlesnake Federal Unit #001 has been seprted into mutiple WOs due to high sample volume. WOs are E412065-E412068.

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

Vertex Resource Services Inc.

Project Name: Rattlesnake Federal Unit #001

Work Order: E412068

Job Number: 01058-0007

Received: 12/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/12/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 12/12/24

Chad Hensley  
3101 Boyd Drive  
Carlsbad, NM 88220

Project Name: Rattlesnake Federal Unit #001  
Workorder: E412068  
Date Received: 12/10/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/10/2024 7:00:00AM, under the Project Name: Rattlesnake Federal Unit #001.

The analytical test results summarized in this report with the Project Name: Rattlesnake Federal Unit #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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### Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/24 12:58
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS24-01 @ 0-4.1'	E412068-01A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-02 @ 0-4.1'	E412068-02A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-03 @ 0-1'	E412068-03A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-04 @ 0-4.1'	E412068-04A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-05 @ 0-4.1'	E412068-05A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-06 @ 0-4.1'	E412068-06A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-07 @ 0-4.1'	E412068-07A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-08 @ 0-4.1'	E412068-08A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-09 @ 0-3'	E412068-09A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-10 @ 0-4.1'	E412068-10A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.
WS24-11 @ 0-4.1'	E412068-11A	Soil	12/05/24	12/10/24	Glass Jar, 2 oz.

### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-01 @ 0-4.1'**

**E412068-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.8 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.1 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	108	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-02 @ 0-4.1'**

**E412068-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.5 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	83.4	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-03 @ 0-1'**

**E412068-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		84.1 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	44.7	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-04 @ 0-4.1'**

**E412068-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.9 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.7 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	78.3	20.0	1	12/10/24	12/10/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-05 @ 0-4.1'**

**E412068-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		81.4 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.7 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	163	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-06 @ 0-4.1'**

**E412068-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	81.4	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-07 @ 0-4.1'**

**E412068-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.6 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	160	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-08 @ 0-4.1'**

**E412068-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		82.1 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.2 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	200	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-09 @ 0-3'**

**E412068-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.1 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	60.9	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-10 @ 0-4.1'**

**E412068-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.0 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>		128 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	227	20.0	1	12/10/24	12/11/24	



### Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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**WS24-11 @ 0-4.1'**

**E412068-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Benzene	ND	0.0250	1	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/11/24	
Toluene	ND	0.0250	1	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		82.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.3 %	70-130	12/10/24	12/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2450043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	12/10/24	12/11/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2450040
Chloride	168	20.0	1	12/10/24	12/11/24	



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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#### Volatile Organics by EPA 8021B

Analyst: SL

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

**Blank (2450038-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.70		8.00		83.7	70-130			

**LCS (2450038-BS1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.76	0.0250	5.00		95.2	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.7	70-130			
Toluene	4.70	0.0250	5.00		94.0	70-130			
o-Xylene	4.57	0.0250	5.00		91.4	70-130			
p,m-Xylene	9.31	0.0500	10.0		93.1	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.76		8.00		84.5	70-130			

**Matrix Spike (2450038-MS1)**

Source: E412068-03

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.5	61-133			
Toluene	4.74	0.0250	5.00	ND	94.8	61-130			
o-Xylene	4.60	0.0250	5.00	ND	92.0	63-131			
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.68		8.00		83.5	70-130			

**Matrix Spike Dup (2450038-MSD1)**

Source: E412068-03

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	0.443	20	
Ethylbenzene	4.66	0.0250	5.00	ND	93.3	61-133	0.876	20	
Toluene	4.77	0.0250	5.00	ND	95.4	61-130	0.652	20	
o-Xylene	4.65	0.0250	5.00	ND	92.9	63-131	1.00	20	
p,m-Xylene	9.47	0.0500	10.0	ND	94.7	63-131	0.902	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	0.936	20	
Surrogate: 4-Bromochlorobenzene-PID	6.70		8.00		83.7	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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#### 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 (2450038-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

**LCS (2450038-BS2)**

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130			

**Matrix Spike (2450038-MS2)**

Source: E412068-03

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

**Matrix Spike Dup (2450038-MSD2)**

Source: E412068-03

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.5	70-130	0.295	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2450043-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.3		50.0		111	50-200			

**LCS (2450043-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: <i>n</i> -Nonane	55.6		50.0		111	50-200			

**Matrix Spike (2450043-MS1)**

Source: E412068-08

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
Surrogate: <i>n</i> -Nonane	58.4		50.0		117	50-200			

**Matrix Spike Dup (2450043-MSD1)**

Source: E412068-08

Prepared: 12/10/24 Analyzed: 12/10/24

Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	38-132	2.72	20	
Surrogate: <i>n</i> -Nonane	59.8		50.0		120	50-200			



### QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/2024 12:58:08PM
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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 (2450040-BLK1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	ND	20.0							
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**LCS (2450040-BS1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	257	20.0	250		103	90-110			
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**LCS Dup (2450040-BSD1)**

Prepared: 12/10/24 Analyzed: 12/10/24

Chloride	257	20.0	250		103	90-110	0.232	20	
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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

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Rattlesnake Federal Unit #001 Project Number: 01058-0007 Project Manager: Chad Hensley	<b>Reported:</b> 12/12/24 12:58
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

E412008 CM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E 4102		01058 007					x	x			
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220															
Address: 3101 Boyd dr.				Phone: 575-689-7597															
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com															
Phone: 575-200-6167				Miscellaneous:															
Email: Rarnold@vertexresource.com, Rplogger@vert																			
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDQC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
2:15	12/5/2024	Soil	1	WS24-01 @ 0-4.1'		1	X	X	X		X								
2:22	12/5/2024	Soil	1	WS24-02 @ 0-4.1'		2	X	X	X		X								
2:23	12/5/2024	Soil	1	WS24-03 @ 0-1'		3	X	X	X		X								
2:30	12/5/2024	Soil	1	WS24-04 @ 0-4.1'		4	X	X	X		X								
2:37	12/5/2024	Soil	1	WS24-05 @ 0-4.1'		5	X	X	X		X								
2:46	12/5/2024	Soil	1	WS24-06 @ 0-4.1'		6	X	X	X		X								
2:56	12/5/2024	Soil	1	WS24-07 @ 0-4.1'		7	X	X	X		X								
3:09	12/5/2024	Soil	1	WS24-08 @ 0-4.1'		8	X	X	X		X								
3:20	12/5/2024	Soil	1	WS24-09 @ 0-3'		9	X	X	X		X								
3:29	12/5/2024	Soil	1	WS24-10 @ 0-4.1'		10	X	X	X		X								
Additional Instructions: WO: 23E-01414 Jim Raley																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Riley Arnold																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill to Devon)				Company: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Rattlesnake Federal Unit #001				Address: 5315 Buena Vista				E412068		C1058-007					X	X			
Project Manager: Chad Hensley				City, State, Zip: Carlsbad, NM, 88220															
Address: 3101 Boyd dr.				Phone: 575-689-7597															
City, State, Zip: Carlsbad, NM, 88220				Email: Jim.Raley@dvn.com															
Phone: 575-200-6167				Miscellaneous:															
Email: Rarnold@vertexresource.com, Rplogger@vert																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	ICEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
3:45	12/5/2024	Soil	1	WS24-11 @0-4.1'		11	X	X	X		X								
Additional Instructions: WO: 23E-01414 Jim Raley																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Riley Arnold																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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							
<i>Riley Arnold</i>		12-9-24		11:00		<i>Jim Raley</i>		12-9-24		11:45		Lab Use Only							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N							
<i>Jim Raley</i>		12-9-24		16:30		<i>Jim Raley</i>		12-9-24		16:30		T1 _____ T2 _____ T3 _____							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
<i>Jim Raley</i>		12-9-24		22:30		<i>Jim Raley</i>		12-10-24		7:00		Container type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Released to Imaging: 2/11/2026 1:40:49 PM

Received by OCD: 9/4/2025 9:52:03 AM

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### Envirotech Analytical Laboratory

Printed: 12/10/2024 10:11:47AM

#### 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:	Vertex Resource Services Inc.	Date Received:	12/10/24 07:00	Work Order ID:	E412068
Phone:	(575) 748-0176	Date Logged In:	12/09/24 16:17	Logged In By:	Noe Soto
Email:	chensley@vertexresources.com	Due Date:	12/16/24 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

Carrier: Courier

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

#### Sample Turn Around Time (TAT)

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

#### Sample Cooler

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

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

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

#### Sample Container

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

#### Field Label

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

#### Comments/Resolution

Project Rattlesnake Federal Unit #001 has been seprted into mutiple WOs due to high sample volume. WOs are E412065-E412068.

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

Date



envirotech Inc.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

January 22, 2025

SALLY CARTTAR  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: RATTLESNAKE FEDERAL UNIT 001 H

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 13:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 SALLY CARTTAR  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	01/16/2025	Sampling Date:	01/14/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	RATTLESNAKE FEDERAL UNIT 001 H	Sampling Condition:	Cool & Intact
Project Number:	24E - 04918	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BACKFILL - 2 (H250259-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.08	104	2.00	3.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.18	109	2.00	7.32		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.46	123	2.00	8.06		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.69	128	6.00	8.38		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/20/2025	ND	216	108	200	1.07		
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	187	93.7	200	3.74		
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Vertex (Bill to Devon)</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Sally Carttar</u>		P.O. #:													
Address: <u>3101 Boyd Dr.</u>		Company:													
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Attn:													
Phone #: <u>575-361-3561</u> Fax #:		Address:													
Project #: <u>24E-04918</u> Project Owner:		City:													
Project Name: <u>Rattlesnake Federal unit 001 H</u>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <u>Riley Arnold</u>		Fax #:													

FOR LAB USE ONLY		(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING		DATE	TIME	BTEX (8021)	TPH: 8015 (GLO/DRO/MRO)	Chloride	
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL						OTHER:
<u>H250 859</u>	<u>Backfill - 2</u>	<u>G</u>			<u>X</u>				<u>X</u>			<u>1.14.25</u>	<u>11:00</u>	<u>X</u>	<u>X</u>	<u>X</u>

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>1/16</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>11:02</u>	Received By: <u>[Signature]</u>	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Date: <u>1.14.25</u>	Time: <u>1:39</u>	REMARKS: <u>Scatttar@vertexresource.com</u>
Sampler - UPS - Bus - Other:	Observed Temp. °C <u>0.12</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Corrected Temp. °C <u>0.42</u>	CHECKED BY: <u>[Signature]</u>	Thermometer ID #140 Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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 502767

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nOY1711838821
Incident Name	NOY1711838821 RATTLESNAKE FEDERAL UNIT #001 @ 30-025-36928
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-36928] RATTLESNAKE FEDERAL UNIT #001

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	RATTLESNAKE FEDERAL UNIT #001
Date Release Discovered	04/06/2017
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion   Production Tank   Crude Oil   Released: 20 BBL   Recovered: 0 BBL   Lost: 20 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

*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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 09/04/2025
--	--

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Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 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	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**  
*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)	4600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	880
GRO+DRO (EPA SW-846 Method 8015M)	370
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	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	12/05/2024
On what date will (or was) the remediation complete(d)	12/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	11457
What is the estimated volume (in cubic yards) that will be reclaimed	1392
What is the estimated surface area (in square feet) that will be remediated	11457
What is the estimated volume (in cubic yards) that will be remediated	1392

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

QUESTIONS, Page 4

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 09/04/2025
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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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**Santa Fe, NM 87505**

QUESTIONS, Page 5

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>442285</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>12/05/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>69</b>
What was the sampling surface area in square feet	<b>10445</b>

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
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	11457
What was the total volume (in cubic yards) reclaimed	1392
Summarize any additional remediation activities not included by answers (above)	Remediation complete.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 09/04/2025
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QUESTIONS, Page 7

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	11457
What was the total volume of replacement material (in cubic yards) for this site	1392

*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.*

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)	06/05/2026

Summarize any additional reclamation activities not included by answers (above)	Reclamation Complete
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*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 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: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 09/04/2025
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QUESTIONS, Page 8

Action 502767

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Revegetation Report</b>	
<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 502767

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 502767
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Report for Incident #NOY1711838821 RATTLESNAKE FEDERAL UNIT #001, thank you. This Reclamation Report is approved.	2/11/2026