Incident Numbers: nKJ1600727914, nOY1711838821



Remediation Closure

Rattlesnake Federal Unit #001

Section 26, Township 26 South, Range 34 East

API: 30-015-36928

County: Lea

Vertex File Number: 23E-04815

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

January 2025

Remediation Closure
Rattlesnake Federal Unit #001
Section 26, Township 26 South, Range 34 East
ΔPI· 30-015-36928

County: Lea

Prepared for:

Devon Energy Production Company, LP 5315 Buena Vista Drive Carlsbad, New Mexico 88220

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March 13,2025

Date

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PROJECT MANAGER, REPORT REVIEW

March 13, 2025

Date

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1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Remediation Closure for produced water and crude oil releases that occurred on December 24, 2015, and April 6, 2017, respectively, at Rattlesnake Federal Unit #001 API: 30-015-36928 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on January 7, 2016, and April 28, 2017 (Appendix A). Incident Identification numbers nKJ1600727914 and nOY1711838821 were assigned to these incidents.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

The releases occurred on December 24, 2015, and April 6, 2017, due to equipment failure on stuffing box well and corrosion on a production tank due to hole on bottom of oil tank. The incidents were reported on January 7, 2016, and April 28, 2017, and involved the release of approximately 10 barrels (bbl) of produced water and approximately 20 bbl of crude oil on the pad site. Approximately 7 bbl of free fluid was removed during initial clean-up of produced water. Approximately 0 bbl. of free fluid was removed during the initial clean-up of crude oil. Additional details relevant to the releases are presented in the C-141 Report (Appendix A).

3.0 Site Characteristics

The site is located approximately 19 miles southwest of Jal, New Mexico (Google Inc. 2024). The legal location for the site is Section 26, Township 26 South and Range 34 East in Lea County, New Mexico. The release area is located on federal property. An aerial photograph and site schematic are presented on Figure 1.

The *Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Qep – Eolian and piedmont deposits (Holocene to middle Pleistocene) and is characterized as Interlayed eolian sands and piedmont-slope deposits. Predominant soil texture on the site is Pyote and Maljamar fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Additional soil characteristics include a drainage class of well drained with negligible runoff. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production. The following sections specifically describe the release area at the site on or in proximity to the constructed pad (Figure 1). The surrounding landscape is associated with fan piedmonts, alluvial fans, and dunes with elevations ranging between 2,800 and 5,00 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation

was determined to be grasses and shrubs. Black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 0.36 miles northeast of the location (United States Geological Survey, 2024). Data from C-04809-POD1 shows the NMOSE borehole recorded a depth to groundwater of greater than 102 feet below ground surface (bgs). Documentation related to the exploratory borehole is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is located approximately 1.41 miles northwest of the site (United States Fish and Wildlife Service, 2024). Closure criteria research is included in Appendix B.

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

IValli	e: Rattlesnake Federal Unit #001			
Coor	dinates: 32.0185623,-103.4385986	X: 647461	Y: 3543559	
Speci	fic Conditions	Value	Unit	
	Depth to Groundwater (nearest reference)	>102	feet	
1	Distance between release and nearest DTGW reference	1,909	feet	
1		0.36	miles	
	Date of nearest DTGW reference measurement	March	n 5, 2024	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	7,441	feet	
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	15,000	feet	
4	Within 300 feet from an occupied residence, school, hospital, institution or church	56,500	feet	
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	28,266	feet	
	ii) Within 1000 feet of any fresh water well or spring	Value (nearest reference)		
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)	
7	Within 300 feet of a wetland	9,727	feet	
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered mine	182,777	feet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	
	Distance between release and nearest unstable area	34,419	feet	
10	Within a 100-year Floodplain	Undetermined	year	
	Distance between release and nearest FEMA Zone A (100 year Floodplain)	90,345	feet	
11	Soil Type	Loamy fine sand	d, sandy clay loam	
12	Ecological Classification	•		
13	Geology	Eolian and pie	edmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils to Remediatio	n & Reclamation Standards	
	Constituent	Limit
0.4 feet her /10.15.20.12)	Chloride	600 mg/kg
0-4 feet bgs (19.15.29.13)	TPH (GRO+DRO+MRO)	100 mg/kg
	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
DTGW 51-100 feet (19.15.29.12)	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

bgs - below ground surface

DTGW - depth to groundwater

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX - benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Characterization of the historical releases were completed between September 11 and December 21, 2023, which identified the area of the releases specified in the initial C-141 Reports. The impacted area of incident nKJ1600727914 was determined to be approximately 7,618 square feet; The impacted area of incident nOY1711838821 was determined to be approximately 2,827 square feet. Daily Field Reports associated with the characterization are included in Appendix B. Characterization sampling laboratory results are presented in Table 3.

Remediation efforts began on November 22, 2024, and were finalized on December 5, 2024. Vertex personnel supervised the excavation of impacted soils. Field screening was completed with a total of 70 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and titration of silver nitrate (chloride). Field screening results were used to identify areas requiring further remediation. Soil was removed to a depth of 1-foot bgs, 3 feet bgs, and 4.1 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting various phases of the remediation are presented in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD on December 5, 2024. Due to human error, these notifications were submitted under the incorrect incident number. A notification variance was approved on March 13, 2025 and correspondence regarding the approval can be found in Appendix E. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 59 base samples and 11 wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Envirotech Analytical Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix

D. All confirmatory samples collected and analyzed were below closure criteria for the site. Upon review, the original backfill material did not meet the necessary closure criteria for TPH and was therefore removed from the site. To ensure compliance, backfill material from an alternate source was brought in. A 5-point composite sample was collected from the new material, which was found to meet the required closure criteria. This material was then used to cover the excavation in accordance with closure requirements and labeled as Backfill-2 in Table 4.

6.0 Closure Request

The release area was fully delineated, remediated, and confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "greater than 100 feet to groundwater". Based on these findings Devon request that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or scarttar@vertexresource.com.

7.0 References

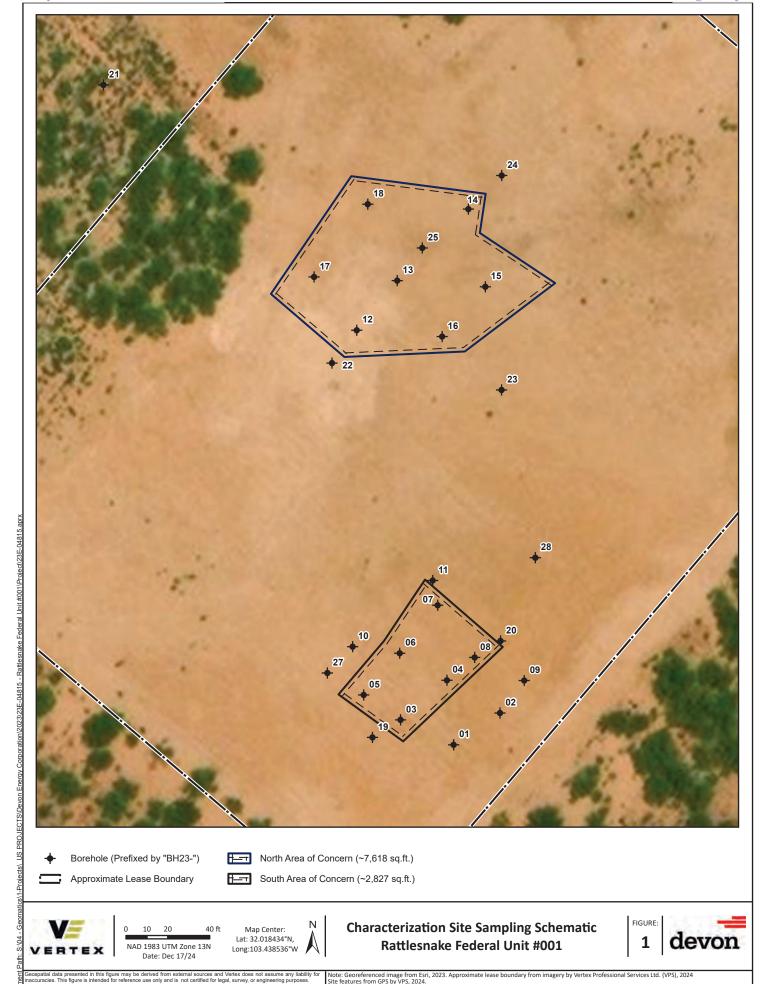
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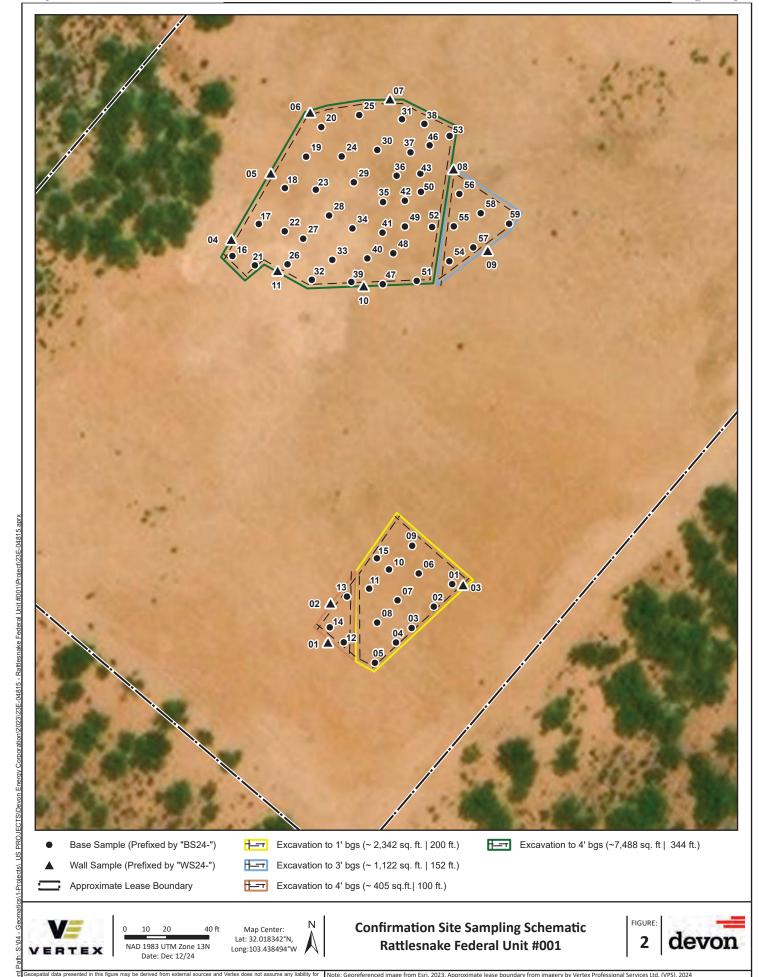
8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. 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 Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. 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.

FIGURES





TABLES

Site Name: Rattlesnake Federal Unit #001

NMOCD Tracking #: nKJ1600727914, nOY1711838821

Project #: 23E-04815

Lab Reports: 2309637, 2309763, 2369918, 2309971, 2310830, 2312F02, and 2312F03

Table	3 . Characte	rization Sample Field S	creen and	Laborato	ry Results	- Depth to	Groundy	vater 100-	500 feet l	ogs
	Sample Desc	cription				Laborato	ory Results			
					Petrole	um Hydrod	arbons	(GRO + DRO) Total Petroleum Hydrocarbons (TPH)		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	3 Diesel Range है Organics (DRO)	Motor Oil Range Organics (MRO))		স্ত্র Concentration
	0	September 11, 2023								
BH23-01	2	September 11, 2023								ND ND
B1125 01	4	September 11, 2023								71
	0	September 11, 2023								
BH23-02	2	September 11, 2023				ND ND				
	0	September 11, 2023								1400
BH23-03	2	September 11, 2023								ND
B1123 03	4	September 11, 2023		ND						
	0	September 12, 2023								ND
BH23-04	2	September 12, 2023								100
B1123 04	4	September 12, 2023								450
	0	September 12, 2023								230
	2	September 12, 2023								600
BH23-05	4	September 12, 2023								1600
	5	September 14, 2023								230
	0	September 12, 2023								680
BH23-06	2	September 12, 2023								180
	4	September 12, 2023								150
	0	September 12, 2023								1100
BH23-07	2	September 12, 2023								370
	4	September 12, 2023								200
	0	September 12, 2023								690
BH23-08	2	September 12, 2023								190
	4	September 12, 2023								130
	0	September 12, 2023								170
BH23-09	2	September 12, 2023								62
	4	September 12, 2023								ND
DU22 40	0	September 14, 2023	ND	ND	ND	ND	ND	ND	ND	240
BH23-10	2	September 14, 2023								98
DU22 44	0	September 14, 2023	ND	ND	ND	ND	ND	ND	ND	240
BH23-11	2	September 14, 2023	ND	ND	ND	ND	ND	ND	ND	250



Site Name: Rattlesnake Federal Unit #001

NMOCD Tracking #: nKJ1600727914, nOY1711838821

Project #: 23E-04815

Lab Reports: 2309637, 2309763, 2369918, 2309971, 2310830, 2312F02, and 2312F03

Table	3 . Characte	rization Sample Field S	creen and	Laborato	ry Results	- Depth to	Groundy	vater 100-	500 feet l	ogs
	Sample Des	cription				Laborato	ory Results			
					Petrole	um Hydrod	arbons			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	व Diesel Range S Organics (DRO)	Motor Oil Range Crganics (MRO)	(GRO + DRO)	Total Petroleum Mydrocarbons (TPH)	Concentration
	0	Sentember 1/1 2022							ND	170
		,								
BH23-12									140	1700 3100
DI123 12									740	
		,							ND ND	1500 570
BH23-13		· · · · · · · · · · · · · · · · · · ·							ND	ND 160
DU52-12		<u>'</u>							ND	160
		•							ND	360
DU22 44										4600
ВП23-14										620
	•									550
									ND 33 ND	0
DU22 15										2100
BH23-15		· · · · · · · · · · · · · · · · · · ·								460
										450
		,							ND	470
51100.46									ND	ND
BH23-16									ND	810
									ND	1900
									ND	2600
B.105 :=		•							10	2000
BH23-17		•							ND	2000
									ND	1800
		·							ND	2100
		,							ND	680
BH23-18	2	September 15, 2023	ND	ND	ND	ND	ND	ND	ND	780
	4	September 15, 2023	ND	ND	ND	ND	ND	ND	ND	2000
	6	December 21, 2023	ND	ND	ND	ND	ND	ND	ND	170
BH23-19	0	October 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-20	0	October 14, 2023	ND	ND	ND	ND	ND	ND	ND	310
	2	October 14, 2023	ND	ND	ND	ND	ND	ND	ND	150
BH23-21	0	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	120



Site Name: Rattlesnake Federal Unit #001

NMOCD Tracking #: nKJ1600727914, nOY1711838821

Project #: 23E-04815

Lab Reports: 2309637, 2309763, 2369918, 2309971, 2310830, 2312F02, and 2312F03

Table	3 . Characte	rization Sample Field S	creen and	Laborato	ry Results	- Depth to	Groundy	vater 100-	500 feet l	ogs
	Sample Des	cription				Laborato	ory Results			
					Petrole	um Hydrod	arbons			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			(mg/kg)
BH23-22	0	October 16, 2023	ND	ND	ND	ND	ND			560
	2	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	510
BH23-23	0	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	ND
B1123 23	2	October 16, 2023	ND	ND	ND	14	ND	(g) (Mg/gm) (g) (GRO + DRO) ON ON GA/gm Total Petroleum (B) (Mg/gm)	240	
BH23-24	0	October 16, 2023	ND	ND	ND	ND	ND	ND	(mg/kg)	540
B1123-24	2	October 16, 2023	ND	ND	ND	28	ND	28	28	180
	0	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-25	2	October 16, 2023	ND	ND	ND	20	ND	20	20	ND
БП23-23	4	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	5	October 16, 2023	ND	ND	ND	ND	ND	ND	ND	ND
DU22 27	0	December 21, 2023	ND	ND	ND	ND	ND	ND	(mg/kg)	67
рп25-27	2	December 21, 2023	ND	ND	ND	ND	ND	ND	ND	65
BH23-27	0	December 21, 2023	ND	ND	ND	ND	ND	ND	ND	ND
51125-20	2	December 21, 2023	ND	ND	ND	ND	ND	ND	ND	ND

[&]quot;ND" Not Detected at the Reporting Limit

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



[&]quot;-" indicates not analyzed/assessed

Site Name: Rattlesnake Federal Unit #001

NMOCD Tracking #: nOY1711838821 and nKJ1600727914

Project #: 24E-04918

Lab Report #: E412065, E412066, E412067, E412068, and H250259

		Table	4. Confirm	ation Samp	le Laborato	ry Results				
	Sample Desc	ription			Petrol	eum Hydroc	arbons			
			Vol	atile	Petroleum Hydrocarbons				Inorganic	
Sample ID	Depth (ft)	Sample Date	eu Be us Be us (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Motor Oil Range (%) Organics (MRO)	(gko)		(kg/kg)
BS24-01	1	December 5, 2024	ND	ND					I ND	228
BS24-02	1	December 5, 2024	ND	ND						224
BS24-02 BS24-03	1	December 5, 2024	ND	ND ND						168
	1									
BS24-04 BS24-05	1	December 5, 2024 December 5, 2024	ND ND	ND ND						187 149
BS24-05	1	December 5, 2024	ND ND	ND ND						169
BS24-06 BS24-07	1	December 5, 2024	ND ND	ND ND						201
BS24-07 BS24-08	1									
		December 5, 2024	ND	ND						154
BS24-09	1	December 5, 2024	ND	ND						127
BS24-10	1	December 5, 2024	ND	ND						148
BS24-11	1	December 5, 2024	ND	ND						196
BS24-12	4.1	December 5, 2024	ND	ND						122
BS24-13	4.1	December 5, 2024	ND	ND						90.4
BS24-14	4.1	December 5, 2024	ND	ND						40
BS24-15	1	December 5, 2024	ND	ND						77
BS24-16	4.1	December 5, 2024	ND	ND						ND
BS24-17	4.1	December 5, 2024	ND	ND						ND
BS24-18	4.1	December 5, 2024	ND	ND						ND
BS24-19	4.1	December 5, 2024	ND	ND						92.1
BS24-20	4.1	December 5, 2024	ND	ND						101
BS24-21	4.1	December 5, 2024	ND	ND						ND
BS24-22	4.1	December 5, 2024	ND	ND						81.8
BS24-23	4.1	December 5, 2024	ND	ND						87.3
BS24-24	4.1	December 5, 2024	ND	ND						ND
BS24-25	4.1	December 5, 2024	ND	ND						20.3
BS24-26	4.1	December 5, 2024	ND	ND						65.9
BS24-27	4.1	December 5, 2024	ND	ND						126
BS24-28	4.1	December 5, 2024	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

Site Name: Rattlesnake Federal Unit #001

NMOCD Tracking #: nOY1711838821 and nKJ1600727914

Project #: 24E-04918

Lab Report #: E412065, E412066, E412067, E412068, and H250259

		Table	4. Confirm	ation Samp	le Laborato	ry Results				
	Sample Desc	ription			Petrol	eum Hydroc	arbons			
			Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzen Benzen (mg/kg)	(gy/gm)	(GRO)	M Diesel Range Organics (DRO)	Motor Oil Range SA Organics (MRO)	(mg/kg)	স স Total Petroleum জি Hydrocarbons (TPH)	M Chloride Concentration
					D	epth to Grou	ndwater >10	00'		
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	832	1262	136
Backfill-2	0	January 14, 2025	ND	ND	ND	ND	ND	ND	ND	64

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria Bold and green shaded indicates exceedance outside OCD NM Reclamation Closure Criteria

[&]quot;-" indicates not analyzed/assessed

APPENDIX A - NMOCD C-141 Reports

Form C-141

Revised August 8, 2011

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

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	catio	n and Co	rrective A	ction	ì			
						OPERA	ΓOR			al Report		Final Report
Name of Co	ompany D	evon Energy	y Product	ion Company		Contact R	andy Gladden, l	Produc	tion Foren	nan		
		Rivers Hwy		VM 88210			No. 575-513-94	-63				
Facility Na	me Rattles	snake Federa	l Unit 1			Facility Ty	pe Oil					
Surface Ov	vner Feder	ral		Mineral	Owner	r Federal			API No	30-025-3	6928	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/	West Line	County		
В	26	26S	34E	1100		North	1980		East	Lea		
			Latitude	: N 32'01'06.8	,,	Loi	ngitude: W 103	3'26'18	3.8"			
				NAT	URE	OF REL						
		Produced Wa	ter				Release 10 BBL			Recovered		
Source of Ro		. al					Hour of Occurre	nce		Hour of D		ry
Stuffing box Was Immed						If YES, To	5 @ 12:30pm Whom?		12/24/201	15 @ 12:30 _I)III	
vvas minec	inte i votice		Yes [No Not R	equired							
By Whom?	Randy Glad	den, Producti	on Forema	ın		Date and l						
							4/15 @ 1:35pm 4/15 @ 1:45pm					
Was a Wate	rcourse Re			_		If YES, Vo	olume Impacting	the W	atercourse			
			Yes 🗵			N/A	RECEIVE	ח				
If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.* N/A			By Kellie Jo		at 7:43	Ram la	n ∩'	7 2016
		olem and Ren										
							ced water was release				well h	ead. Rod
		l and Cleanuj				10G COG	414 -: 16	41 1	A X/	1-		1 7 DDI C
							n the east side of ncy will be contact				recove	rea / BBLS
J. P. J.		F					,					
							knowledge and und perform correct					
							arked as "Final R					
							on that pose a thr					
				tance of a C-141	report	does not reliev	e the operator of	respons	ibility for c	ompliance v	vith an	y other
federal, state	, or local lav	ws and/or regu	ılations.		1		OH GON	appi	LATION	DHIIGI	~~~	
G: C	a ka b. Co	allegos-T	ر الماريدي	Cald.			OIL CON	SER V	ATION	DIVISIO	<u> </u>	
Signature: 3	m m v Gi	megos-1	rome	ieui								
Printed Name	e: Sarah Ga	llegos-Trouble	efield			Approved by	Environmental S	pecialis	t:40	~=	2	
Title: Field A	itle: Field Admin Support						e: 01/07/2016		Expiration	Date: 03/	07/201	16
E-mail Addre	ess: Sarah.C	Sallegos-Troul	olefield@d	dvn.com		Conditions of	Approval:				. —	
							required. Delinea	ate and	remediate	Attached	_	
Date: 1/05/20			none: 575.	748.1864			CD guides. Geota			1KP-408	01	
* Attach Addi	tional She	ets If Necess	ary			remediation r	ecommended.					

nKJ1600727914 pKJ1600728070

Form C-141

Revised August 8, 2011

nOY1711838821

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

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

			Dol	Notific	otio	and C	orrective A	otion	
			Keie	ease mound	cation				_
Name of C	omnony D	Narram Emanar	v Deadwat	ion Commons		OPERA			tial Report Final Report
		Rivers Hwy		ion Company			No. 575-513-94	Production Foren	lan
		snake Federa				Facility Ty		-03	
			ti cint no		•		pe on	Γ.====	
Surface Ov	wner Fede	ral		Mineral	Owner	Federal		API N	o 30-025-36928
				LOCA	ATIO	N OF RE	LEASE		
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County
В	26	26S	34E	1100		FNL	1980	FEL	Lea
			T 494 T	22.0105.622	1		T	2 4205006	
			Latitude	: 32.0185623			Longitude: 10	3.4385986	
				NAT	URE	OF REL	EASE		
Type of Rele	ease Oil					Volume of			Recovered
Source of Re	ologgo					19.5BBLS	S oil Hour of Occurre	0.00	d Hour of Discovery
Hole in oil t						4/6//2017			@ 7:23am
Was Immed	iate Notice	Given?		_		If YES, T	o Whom?	<u> </u>	
		\boxtimes	Yes	No Not R	equired	BLM-Shel			
By Whom?						OCD-Oliv Date and			
	West, Assist	tant Production	n Foremai	1			2017 @11:45AM		
							2017 @11:46AM		
Was a Wate	rcourse Re		Yes 🗵	1 No		If YES, V	olume Impacting	the Watercourse	
70 777				_		14/11	<i>─ RECE</i>	IVED	
If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.*):36 am, Apr 28, 201
	use of Prob	olem and Ren	nedial Act	tion Taken.*			By Onv	na ru at ru	7.30 am, Apr 20, 20 m
									d from the containment. The
		(under engine l and Cleanu			ion cont	ractor will be	contacted to assi	st with delineation	and remediation efforts.
					in a rel	ease of 19.5B	BLS of oil. The	total area affected	by the release was 70' X 25'. A
							s will be made to		
I haraby cart	ify that the	information a	ivon above	a is true and comm	lata to t	he best of my	knowledge and u	understand that pur	rsuant to NMOCD rules and
									leases which may endanger
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final R	eport" does not re	lieve the operator of liability
									er, surface water, human health compliance with any other
		ws and/or regi		nance of a C-141	report u	oes not renev	e the operator of	responsibility for t	compitance with any other
	,						OIL CON	SERVATION	DIVISION
Signature: $\mathcal L$	Dana De	eLaRosa						00	^
							T	J	7
Printed Nam	e: Dana Del	LaRosa				Approved by	Environmental S		4
Title: Field A	Admin Supp	ort				Approval Da	te: 4/28/201	7 Expiration	Date:
								•	,
E-mail Addr	ess: Dana.D	eLaRosa@dv	n.com			Conditions o	* *		Attached
Date: 04/17/2	2017	Phone:	575.746.5	5594		see at	tached direc	ctive	

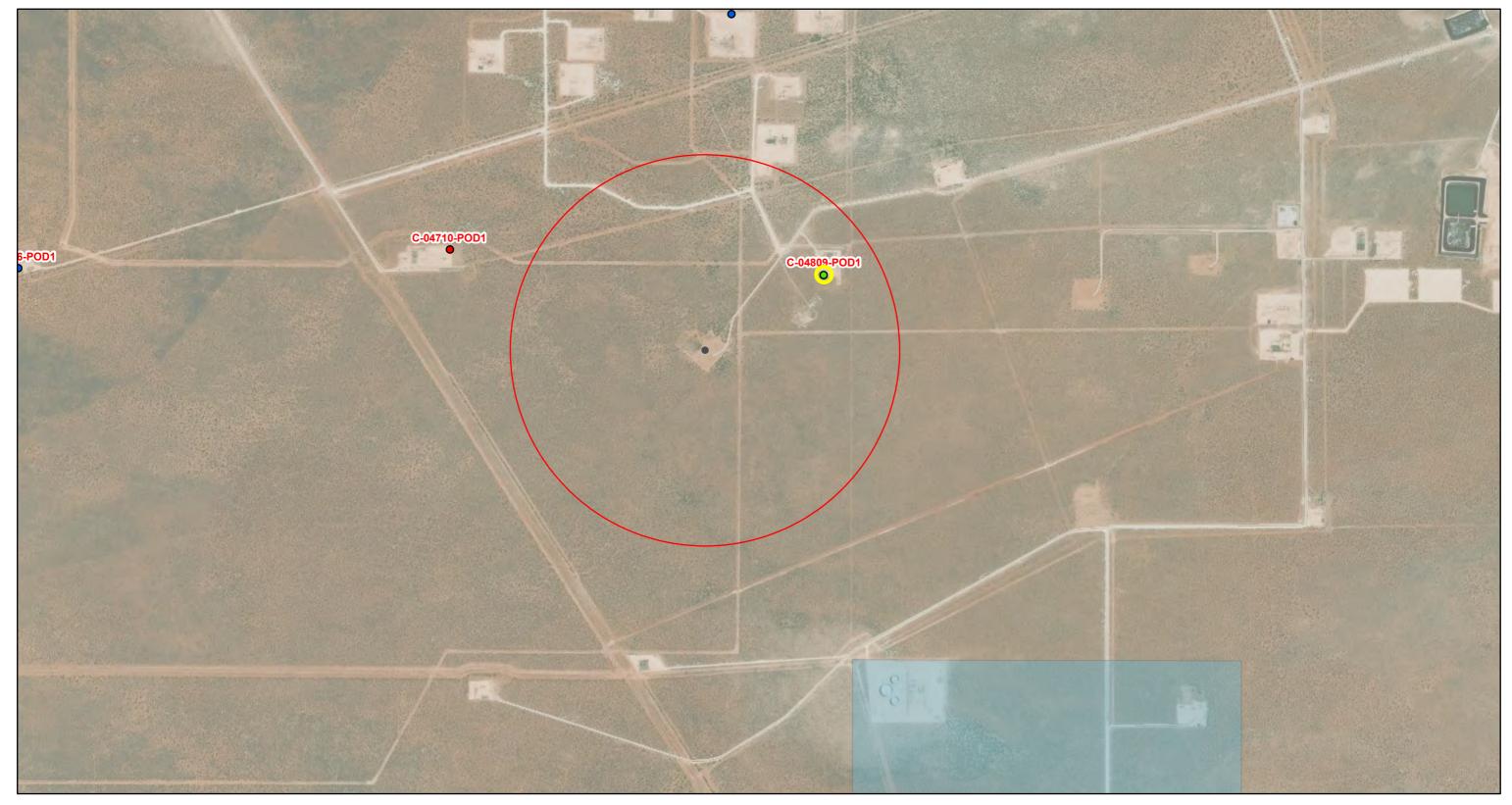
1RP-4686

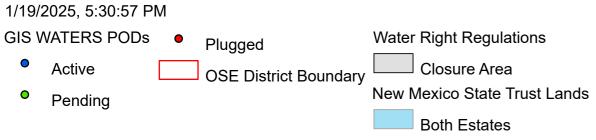
pOY1711839667

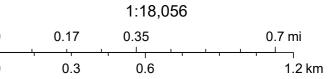
* Attach Additional Sheets If Necessary

APPENDIX B – Closure Criteria Research Documentation

OSE POD 0.5 miles







Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Water Column/Average Depth to Water

euffix indicates he POD has peen replaced 弦 no longer eerves a water ight file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)				ers are est to lar	gest)				(NAD83 UTN	∕l in meters)			(In feet)	(In feet)	(In feet
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Υ	Мар	Distance	Well Depth	Depth Water	Water Column
04710 POD1		CUB	LE	SE	SE	SE	22	265	34E	646399.7	3543956.9	•	1133			
04856 POD1		CUB	LE	NE	SW	NE	23	26S	34E	647550.6	3544940.3	•	1384	105		
04817 POD1		CUB	LE	SW	SE	SW	13	265	34E	648499.2	3545657.3	•	2341	105		
04852 POD1		CUB	LE	NE	NW	NE	24	265	34E	649057.5	3545374.4	•	2417	55		
04836 POD1		CUB	LE	SE	SE	SE	21	265	34E	644618.7	3543853.3	•	2857	105		
04791 POD1		CUB	LE	SE	SE	SE	13	26S	34E	649598.8	3545568.0	•	2933	60		
04583 POD1		CUB	LE	SW	SW	SW	15	265	34E	644919.7	3545643.4	•	3286	55		
04820 POD1		CUB	LE	NE	NW	NW	13	265	34E	648389.9	3547088.9	•	3650	55		
04890 POD1		CUB	LE	SW	NW	NW	18	26S	35E	649642.3	3546842.3	•	3941	55	55	0
														Average [Depth to W	ater: 55 f e
														Minimum	Depth: 55	feet
														Maximum	n Depth: 55	feet
cord Count:	9															
M Filters (in																

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

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Water Column/Average Depth to Water

1/19/25 5:12 PM MST

* UTM location was derived from PLSS - see Help

Active & Inactive Points of Diversion

(with Ownership Information)

			(acre ft per annum)					and no	D has been replaced longer serves this file, file is closed)		(quarti	ers are 1 ers are s	=NW 2= mallest t	NE 3=5 o larges	5W 4=SE st))	(NAD83 UTM	l in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Υ	Мар	Distance
<u>C 04809</u>	CUB	MON	0.000	DEVON ENERGY PRODUCTION CO.	LE	C 04809 POD1	NA				NE	NE	NE	26	26S	34E	647948.9	3543876.1	•	581.9
<u>C 04710</u>	CUB	MON	0.000	DEVON ENERGY	LE	C 04710 POD1	NA				SE	SE	SE	22	265	34E	646399.7	3543956.9	•	1,133.4
<u>C 04856</u>	CUB	EXP	0.000	DEVON ENDERY PRODUCTION CO.	LE	C 04856 POD1	NA				NE	SW	NE	23	26S	34E	647550.6	3544940.3	•	1,384.2
<u>C 04817</u>	CUB	MON	0.000	DEVON ENERGY RESOURCES	LE	C 04817 POD1	NA				SW	SE	SW	13	265	34E	648499.2	3545657.3	•	2,341.1
<u>C 04852</u>	CUB	EXP	0.000	RAYBAW OPERATING, LLC	LE	C 04852 POD1	NA				NE	NW	NE	24	265	34E	649057.5	3545374.4	•	2,417.5
<u>C 04836</u>	CUB	MON	0.000	DEVON ENERGY PRODUCTION COMPAN	LE	C 04836 POD1	NA				SE	SE	SE	21	265	34E	644618.7	3543853.3	•	2,857.5
<u>C 04791</u>	CUB	MON	0.000	DEVON ENERGY RESOURCES	LE	C 04791 POD1	NA				SE	SE	SE	13	265	34E	649598.8	3545568.0	•	2,933.6
<u>C 04583</u>	CUB	MON	0.000	LUCID ENERGY GROUP	LE	C 04583 POD1	NA				SW	SW	SW	15	265	34E	644919.7	3545643.4	•	3,286.8
<u>C 04820</u>	CUB	MON	0.000	DEVON ENERGY	LE	C 04820 POD1	NA				NE	NW	NW	13	26S	34E	648389.9	3547088.9	•	3,650.1
<u>C 04890</u>	CUB	MON	0.000	OWL OPERATING SWD, LLC	LE	C 04890 POD1	NA				SW	NW	NW	18	265	35E	649642.3	3546842.3	•	3,941.8
<u>C 04601</u>	CUB	MON	0.000	MARATHON OIL	LE	C 04601 POD1	NA				SW	SE	SW	05	265	35E	651709.8	3548919.7	•	6,840.3
<u>C 04827</u>	CUB	MON	0.000	TETRA TECH ON BEHALF OF CONOCO PHILLIPS	LE	C 04827 POD1	NA				NW	SW	SW	08	26S	34E	641658.9	3547317.7	•	6,913.2
<u>C 04846</u>	CUB	MON	0.000	DEVON ENERGY CORP.	LE	C 04846 POD1	NA				SW	NE	NW	06	265	35E	650048.2	3550110.5	•	7,043.8
<u>C 04626</u>	CUB	EXP	0.000	DEVON ENERGY	LE	C 04626 POD1	NA				SE	NE	NW	18	265	34E	640644.5	3546672.6	•	7,493.9
<u>C 04793</u>	CUB	EXP	0.000	DEVON ENERGY RESOURCES	LE	C 04793 POD1	NA				NW	SE	NW	27	26S	35E	655087.8	3543576.1	•	7,626.8
C 02295	CUB	PLS	3.000	INTREPID POTASH NEW MEXICO LLC	LE	<u>C 02295</u>					NE	NE	SE	12	265	33E	639864.9	3547624.4	•	8,615.6
<u>C 03442</u>	С	STK	3.000	INTREPID POTASH NEW MEXICO LLC	LE	C 03442 POD1				Shallow	SE	NW	NE	06	265	34E	641055.8	3550028.1	•	9,103.6
<u>C 03477</u>	С	PRO	0.000	EOG RESOURCES, INC.	LE	C 03442 POD1				Shallow	SE	NW	NE	06	265	34E	641055.8	3550028.1	•	9,103.6
<u>C 03492</u>	С	PRO	0.000	EOG RESOURCES, INC	LE	C 03442 POD1				Shallow	SE	NW	NE	06	26S	34E	641055.8	3550028.1	•	9,103.6
<u>C 02292</u>	CUB	PLS	3.000	DINWIDDIE CATTLE CO.	LE	C 02292 POD1					SE	NW	NE	06	265	34E	640991.6	3549987.2	•	9,120.0
<u>C 03493</u>	С	PRO	0.000	EOG RESOURCES, INC.	LE	C 02292 POD1					SE	NW	NE	06	265	34E	640991.6	3549987.2	•	9,120.0
<u>C 03441</u>	С	STK	3.000	INTREPID POTASH NEW MEXICO LLC	LE	C 03441 POD1				Shallow	SE	NW	NE	06	26S	34E	640970.7	3550039.6	•	9,171.8
<u>C 03491</u>	С	PRO	0.000	EOG RESOURCES, INC	LE	C 03441 POD1				Shallow	SE	NW	NE	06	265	34E	640970.7	3550039.6	•	9,171.8
C 02291	CUB	PLS	3.000	INTREPID POTASH NEW MEXICO LLC	LE	<u>C 02291</u>					NW	NW	NE	06	26S	34E	640825.0	3550140.0 *	•	9,345.9
<u>C 04265</u>	CUB	GEO	0.000	EOG RESOUCES	LE	C 04265 POD1	NA				NE	SW	NW	32	25\$	34E	641842.1	3551281.5	•	9,550.3
4																				+

Record Count: 25

Filters Applied:

UTM Filters (in meters): Easting: 647461 Northing: 3543559 Radius: 010000

Sorted By: Distance

* UTM location was derived from PLSS - see Help

1/2

Water Right Summary WR File Number: C 04809 Subbasin: CUB **Cross Reference: Primary Purpose:** MON MONITORING WELL <u>list</u> **Primary Status:** PMT Permit Subfile: **Total Acres:** Header: **Total Diversion:** 0.000 Cause/Case: **ENSOLUM LLC** Owner: Owner Class: ASHLEY GIOVENGO **Contact:** Owner: DEVON ENERGY PRODUCTION CO. **Owner Class:** DALE WOODALL Contact: **Documents on File** (acre-feet per annum) Transaction Status Status Trn # File/Act 2 Transaction Desc. From/To **Images** Doc Acres Diversion Consumptive get images 755944 EXPL 2024-02-09 PMT APR C-4809 POD1 0.000 0.000 **Current Points of Diversion POD Number** Well Tag Х Υ Other Location Desc Source Q64 Q16 **Q4** Мар Sec Tws Rng C 04809 POD1 NE NF NF 26 265 34F 647948.9 3543876.1 BH01 * UTM location was derived from PLSS - see Help

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

1/19/25 5:20 PM MST Water Rights Summary

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NO	OSE POD NO. (V POD1	ELL NO	3)		VELL TAG ID NO I/A		OSE FILE NOO C-04809	S)				
OCATI	WELL OWNER TO		action Company				PHONE (OPTI 575-748-18					
VELL L	WELL OWNER S 205 E. Bende						CITY Hobbs		Nm 88240	ZIP		
GENERAL AND WELL LOCATION	WELL LOCATION	LAT	TITUDE	32	1 16.	ONDS 8594 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84					
1. GENER	A STATE OF THE STA	RELATIN			26 0. S AND COMMON LANDS ounty, New Mexico	186 W MARKS - PLS			IERE AVAILABLE			
	LICENSE NO. WD118	3	NAME OF LICENSED		n Scarborough			NAME OF WELL DR John Sca	ILLING COMPANY orborough Drilling Inc.			
	DRILLING STAR 03/05/202		DRILLING ENDED 03/05/2024	DEPTH OF COM	PLETED WELL (FT) 102		LE DEPTH (FT) 102	DEPTH WATER FIR	ST ENCOUNTERED (FT) N/A			
7	COMPLETED W	ELL IS:	☐ ARTESIAN	DRY HOLE	SHALLOW (UNC	CONFINED)		STATIC WATER LEV	VEL IN COMPLETED WE N/A	LL (FT)		
10	DRILLING FLUI	D:	✓ AIR	☐ MUD	ADDITIVES - SP	ECIFY:						
RMA	DRILLING METI	HOD:	✓ ROTARY	☐ HAMMER	CABLE TOOL	□ отне	R - SPECIFY;					
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	(include eac	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) (a)		ASING NECTION 'YPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches		
LING & C	0 102 5.00			oil Boring		•			9.			
2. DRII												
_	DEPTH (fee	ı bgl)	BORE HOLE	10,000,000	ANNULAR SEAL M			AMOUNT	METHO PLACEM			
IATERIA	FROM	ТО	DIAM. (inches)	GRAVE	EL PACK SIZE-RANC N/A	E BY INTE	SKVAL	(cubic feet)	PLACEN	tervi.		
3. ANNULAR MATERIAL												

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

FILE NO.

LOCATION

-	DEPTH (f	eet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WAT	ER	ESTIMATED YIELD FOR
	FROM	то	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEAR (YES	ING?	WATER- BEARING ZONES (gpm)
1	0	10	10		Y	√N	
Ī	10	20	10	Sand, trace gravel, brown to tan, med to fine grain, nonuniform	Y	√N	
1	20	30	10	Sand with gravel, red to tan, med to fine grain, samll to large gravel	Y	√N	
Ī	30	40	10	Sandy clay, med to dark brown, noncohesive, uniform	Y	√N	
	40	50	10	Sand, light to med brown, fine to medium grain, noncohesive, uniform	Y	√N	
	50	60	10	Sand, light to red, fine to med grain size, noncohesive, uniform	Y	√N	
	60	70	10	Sand with trace gravel, grey, mostly medium, to fine, noncohesive, nonunifor	rm Y	√N	
1	70	80	10	Sandy clay, grey to med brown, fine to very fine grain size, noncohesive	Y	√N	
1	80	90	10	Caliche, white to grey, thickly bedded, interbedded with sand	Y	√N	
1	90	100	10	Caliche, brown to red thickly bedded, interbedded with brown to red sand	Y	√N	
1	100	102	2	Sand with trace gravel, tan to light brown, fine to med fine grain	Y	√ N	
1	102	102	0	caliche, white to grey	Y	√ N	
			1 1		Y	N	
1					Y	N	
1					Y	N	
1					Y	N	
1					Y	N	
1					Y	N	
İ					Y	N	
1					Y	N	
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1	METHOD U	SED TO E	STIMATE YIEL	D OF WATER-BEARING STRATA:	OTAL ESTIN	MATED	
	□РИМІ	, 0	AIR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD) (gpm):	0.00
	WELL TES			TACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER			
	MICCELLA	VICOUIC IN	CODMATION.		30 302		
	MISCELLA	NEOUS IN	b	Temporary well material removed and soil boring backfilled using dril below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to	cuttings fro ground surfa	m total d ce.	epth to 10 ft
	PRINT NAM		ORILL RIG SUPE	ERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION (THER TI	HAN LICENSE
	RECORD O	F THE AB	OVE DESCRIBE	HAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FORI D WELL, I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS D WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLI	BEEN INSTA	ALLED A	ND THAT TH
	Scott Scarboro	ugh	Digitally signed by Scott Scarborough Date: 2024.03.25 09:29: -00'00'	Coatt Consharough	03/2	25/2024	

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POD NO

TRN NO.

WELL TAG ID NO.

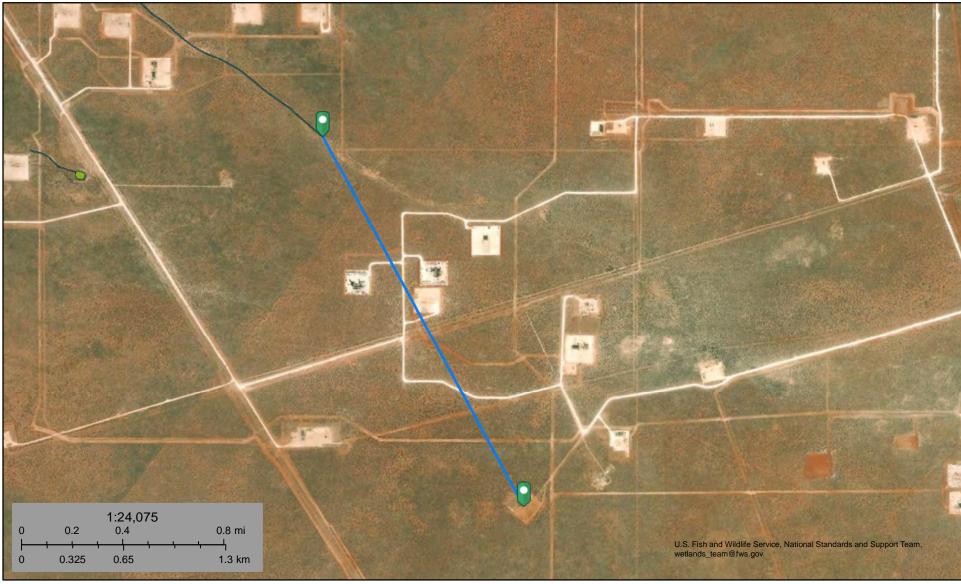
PAGE 2 OF 2

FILE NO.

LOCATION



Rattlesnake Federal Unit #001 Watercourse 7,44ft



August 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

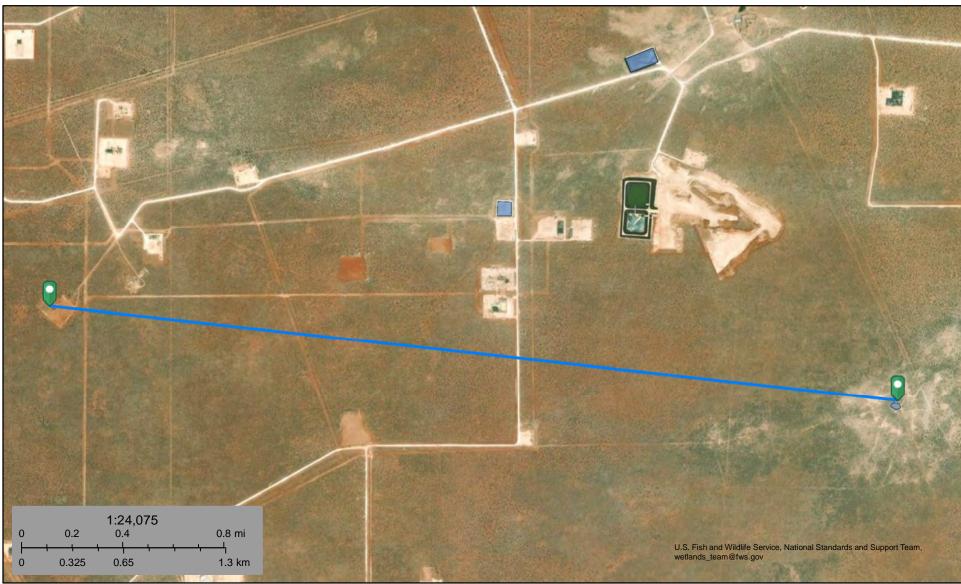
Riverine

___ Other

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Rattlesnake Federal #001 Pond 15,000 feet



August 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

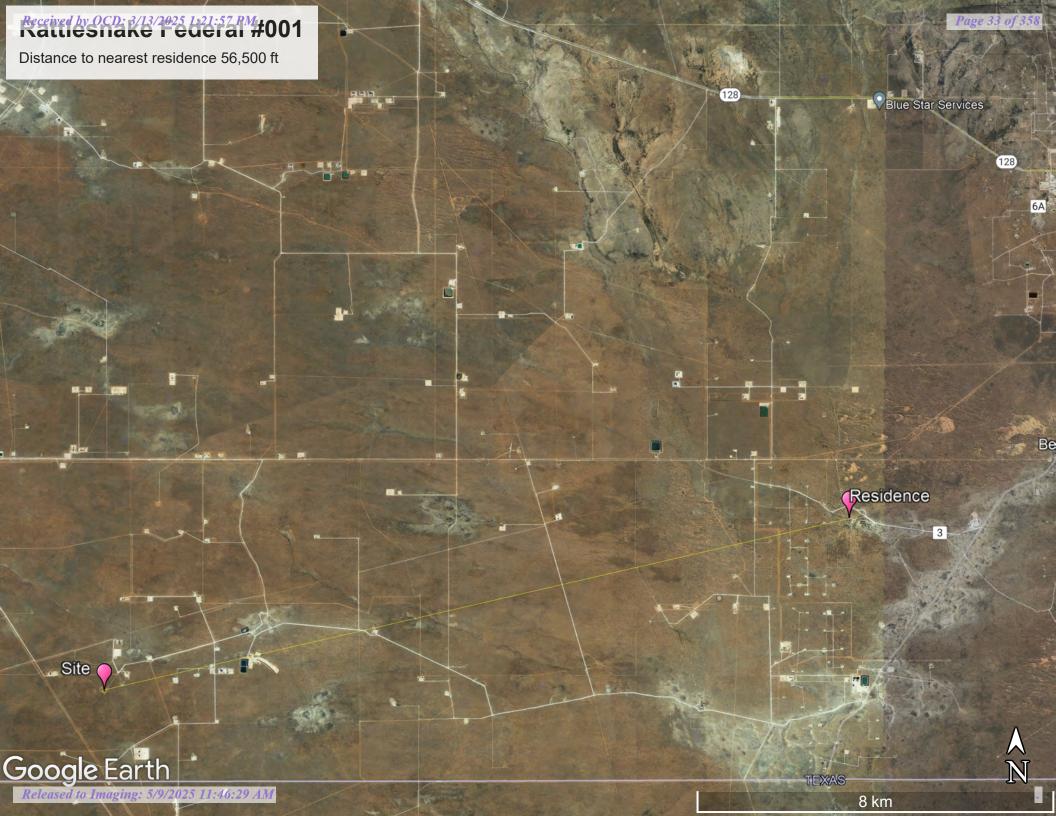
Freshwater Pond

Lake

Other

Riverine

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



Point of Diversion Summary

		quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest NAD83 UTM in meters									
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	x	Υ	Map	
	C 02295	NE	NE	SE	12	26S	33E	639864.9	3547624.4	•	
UTM location	on was derived	from PLSS	- see Help								
Oriller Lic	ense: 122	Drille	er Company:	UNK	NOWN						
Oriller Na	me: UNI	KNOWN									
Orill Start	Date:	Drill	Finish Date:	1949	9-12-31	Plug	Date:				
.og File D	ate:	PCW	Rcv Date:			Sou	rce:				
Pump Typ	e:	Pipe	Discharge Siz	e:		Estir	nated Y	'ield: 12			
	:e: 8.00	Dent	h Well:	250		Den	th Wate	er: 200			

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

1/19/25 5:25 PM MST Point of Diversion Summary

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Water Right Summary



WR File Number:	C 02295	Subbasin:	CUB	Cross Reference:
Primary Purpose:	PLS NON 72-12-1 LIVESTOCK WATERING			
Primary Status:	DCL Declaration			
Total Acres:	0.000	Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	INTREPID POTASH NEW MEXICO LLC	Owner Class:	Owner	
Contact:	KATIE KELLER			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	<u>673898</u>	UWL	2020-05-15	UWL	ACC	C 02295	Т	0.000	0.000	
get images	652904	COWNF	2019-06-11	CHG	PRC	C 02295	Т	0.000	0.000	
get images	648787	COWNF	2019-03-20	CHG	PRC	C 02295	Т	0.000	0.000	
get images	<u>198381</u>	DCL	1993-02-02	DCL	PRC	C-02295	Т	0.000	3.000	

Current Points of Diversion

C 02295 NE NE SE 12 26S 33E 639864.9 3547624.4	POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	Х	Υ	Мар	Other Location Desc
	<u>C 02295</u>			NE	NE	SE	12	26S	33E	639864.9	3547624.4	•	

* UTM location was derived from PLSS - see Help

Priority Summary

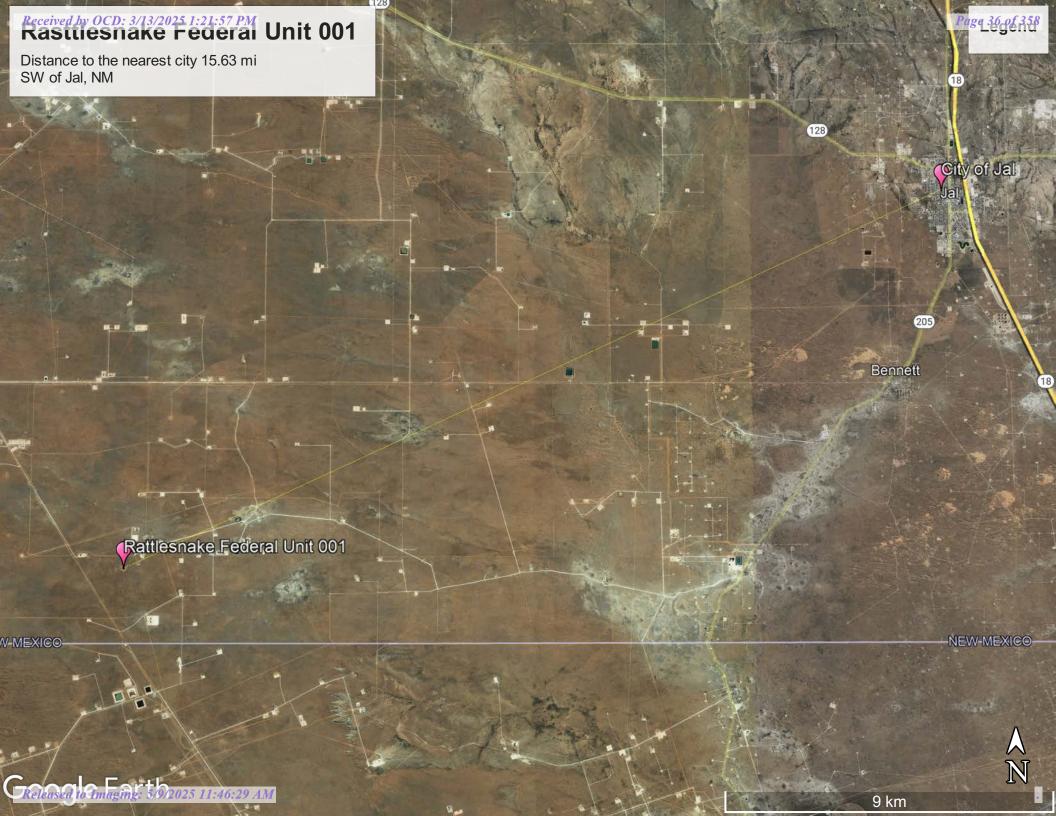
Priority	Status	Acres	Diversion	POD Number	Source
1949-12-31	DCL	0.000	3.000	<u>C 02295</u>	

Place of Use

Q256 Q64 C	Q16 Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
					0.000	3.000		PLS	1943-12-31	DCL	NO PLACE OF USE GIVEN

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

1/19/25 5:25 PM MST Water Rights Summary





Rattlesnake Federal Unit #001 Wetland 9,727ft



August 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

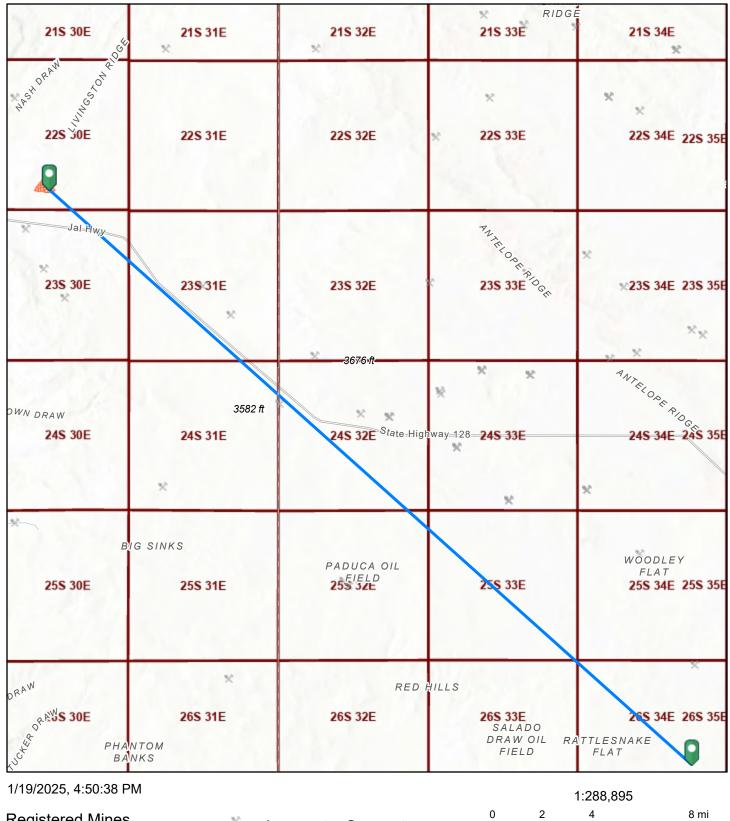
Lake

Other

Riverine

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

Received by OCD: 3/13/2025 1:21:57 PM Rattlesnake Federal #001 182,777 ft



Registered Mines

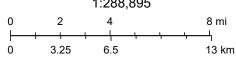
Aggregate, Stone etc.

Aggregate, Stone etc.

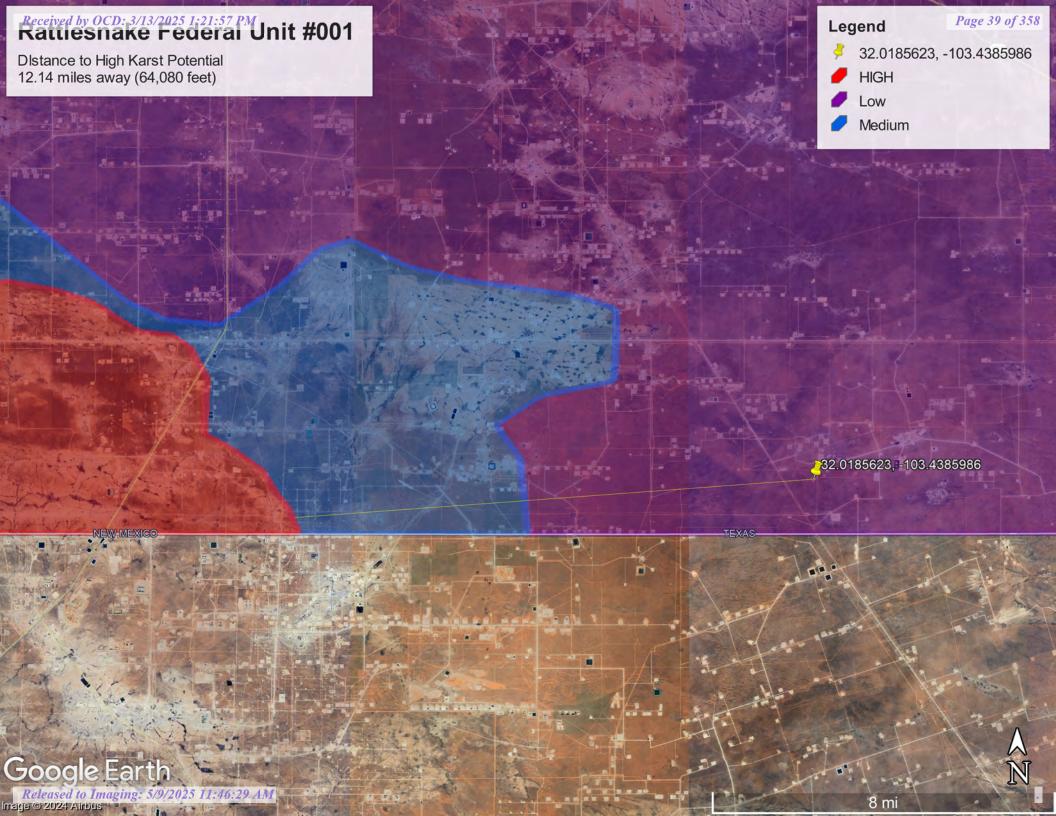
Potash

Aggregate, Stone etc.

PLSS Townships

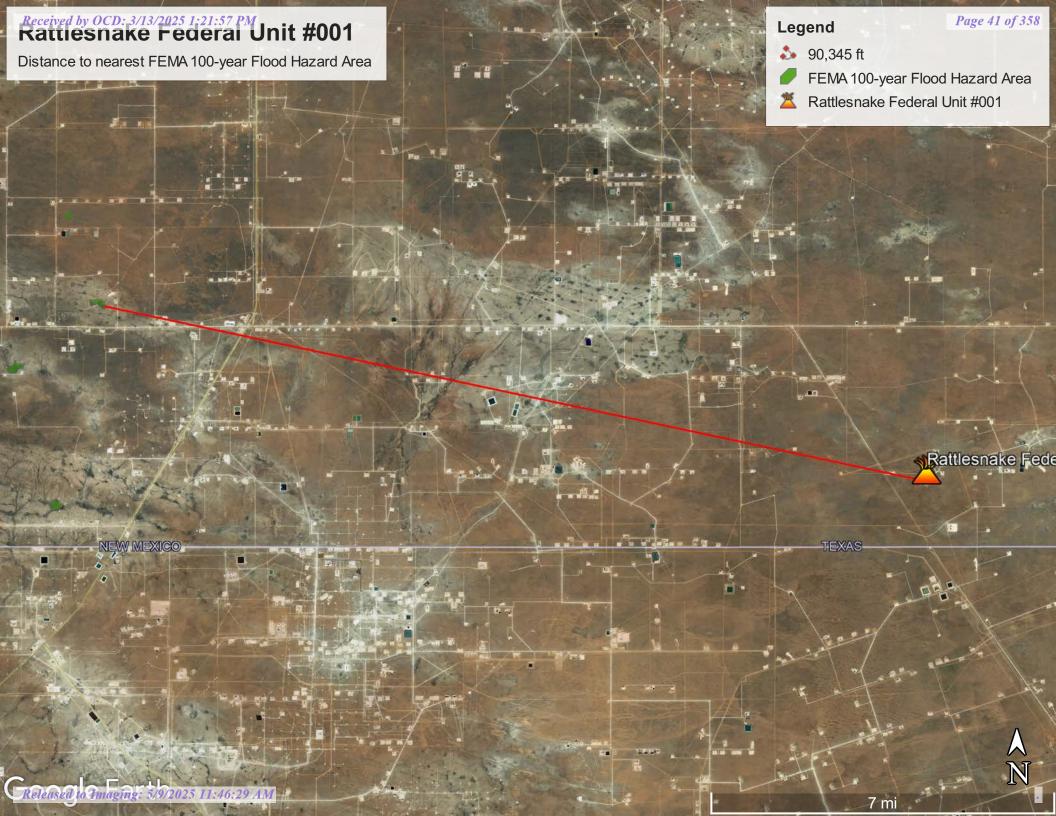


Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, BLM



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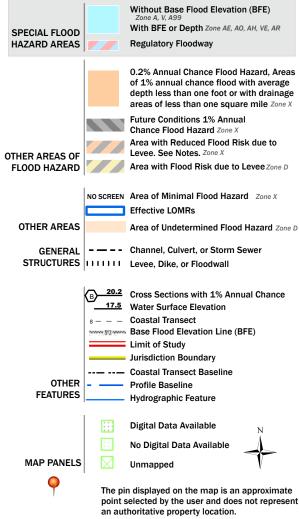
OReleas 250 Imaging: 5/9/2025 1.P.96:29 AM

Received by OCD: 3/13/2025 1:21:57,PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/9/2023 at 7:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2,000



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

å

Spoil Area Stony Spot

Very Stony Spot

Ŷ Wet Spot

Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads Local Roads

00

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Mar 20, 2020—Mar 22. 2020

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

Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI					
BE	Berino-Cacique loamy fine sands association	10.0	69.0%					
PU	Pyote and Maljamar fine sands	4.5	31.0%					
Totals for Area of Interest		14.5	100.0%					

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over

calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand
Bt - 12 to 28 inches: sandy clay loam
Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No



Ecological site R070BD003NM Loamy Sand

Accessed: 05/19/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

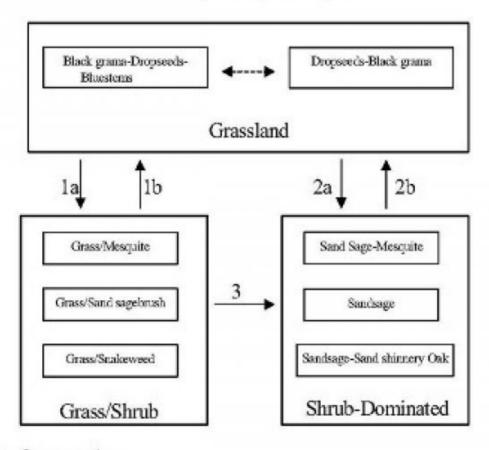
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%			
Shrub/vine/liana foliar cover	0%			
Grass/grasslike foliar cover				
Forb foliar cover	0%			
Non-vascular plants	0%			
Biological crusts	0%			
Litter	50%			
Surface fragments >0.25" and <=3"				
Surface fragments >3"	0%			
Bedrock	0%			
Water	0%			
Bare ground	22%			

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jai	ı Fe	eb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0		3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shimory oak *Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

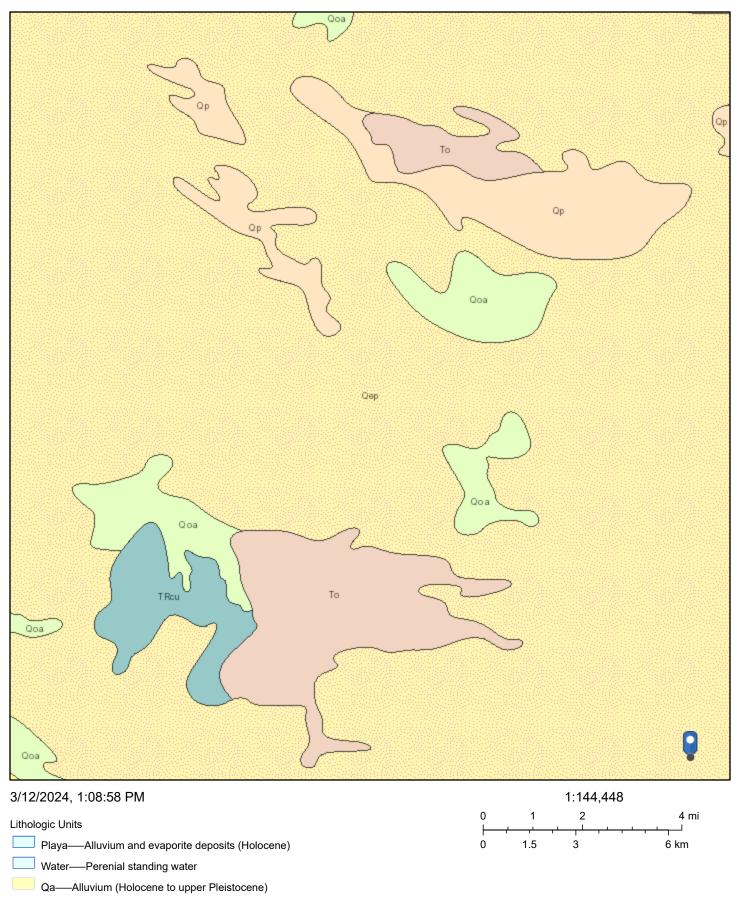
Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			61–123	
	little bluestem	scsc	Schizachyrium scoparium	61–123	_
2	Warm Season	<u>.</u>	•	37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season			37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	<u>.</u>	•	123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	<u>.</u>	•	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	Setaria vulpiseta	123–184	_	
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season			123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine				
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	_
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	-	•	61–123	

Rattlesnake Federal Unit #001 Geology



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

APPENDIX C – Daily Field Reports



Client: Devon Energy Inspection Date: 9/14/2023

Corporation

Site Location Name: Rattlesnake Federal Unit Report Run Date: 9/14/2023 11:06 PM

1

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 9/14/2023 8:30 AM

Departed Site 9/14/2023 2:30 PM

Field Notes

- 13:24 Completed safety paperwork and initial line locate upon arrival to site
- 13:24 Continued delineation efforts on site.
- **13:25** Took BH23-05 to 5' to obtain clean.
- **13:26** BH23-06 stepped out to 10. BH23-07 stepped out to 11.

Samples obtained at 0 and 2' depths.

*southwest portion of site where tank battery used to be.

13:27 Moved to north side of site where we'll head used to be.

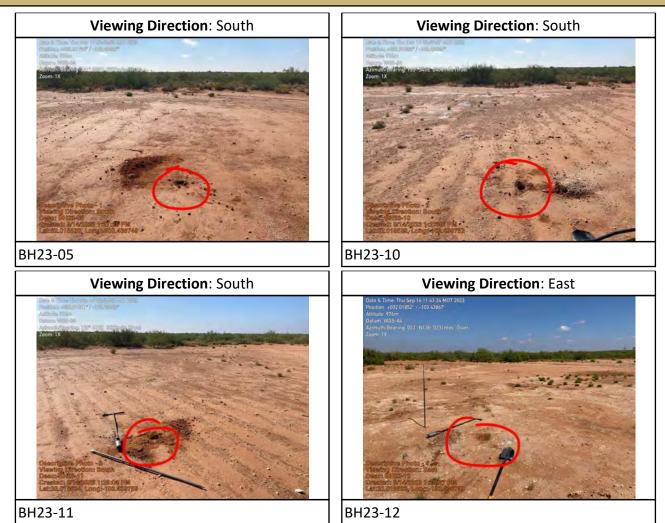
Obtained BH23-12, 13, and 14 all at 0, 2 and 4' depths.

Next Steps & Recommendations

1 Continue delineation



Site Photos









BH23-14



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

VERTEX

Client: Devon Energy Inspection Date: 10/16/2023

Corporation

Site Location Name: Rattlesnake Federal Unit Report Run Date: 10/16/2023 11:31 PM

1

Client Contact Name: Jim Raley API #: 30-025-36928

Client Contact Phone #: 575-748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times

Arrived at Site 10/16/2023 8:00 AM

Departed Site 10/16/2023 2:15 PM

Field Notes

12:42 Completed safety paperwork and initial line locate upon arrival to site

12:42 On site to continue/complete delineation on release area on north side of pad where former wellhead used to be

12:44 Obtained:

BH23-21 step out to north

BH23-22 step out to west

BH23-23 step out to South

BH23-24 step out to east

All at 0 and 2' depths for horizontal delineation purposes.

12:44 Obtained:

BH23-25 in center at 0, 2, 4 and 5' depths for vertical delineation purposes.

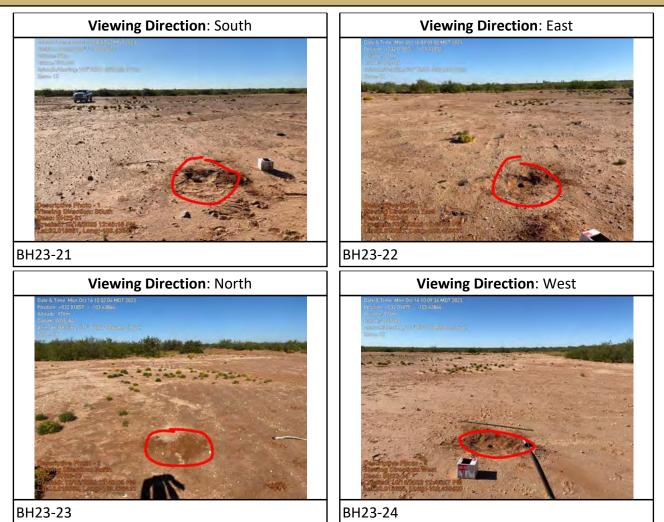
Next Steps & Recommendations

1 Send samples to lab. Draft work plan.

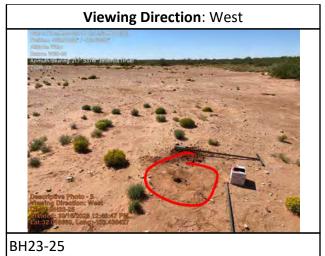




Site Photos









Daily Site Visit Signature

Inspector: Austin Harris

Signature:



Client: Devon Energy Inspection Date: 12/2/2024

Corporation

Site Location Name: Rattlesnake Federal Unit Report Run Date: 12/11/2024 6:57 PM

1

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 12/2/2024 9:30 AM

Departed Site 12/2/2024 3:00 PM

Field Notes

13:51 Excavation continued

13:52 Samples were collected and field screened to verify results were below criteria

13:52 All excavation was completed besides north wall

13:53 Bellydumps hauled several loads of contaminated material to R360

Next Steps & Recommendations

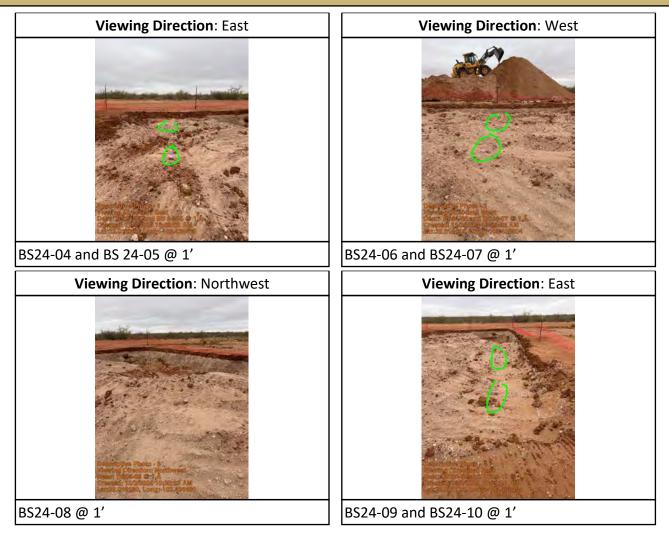
1 Complete excavation

2 Field screen all samples

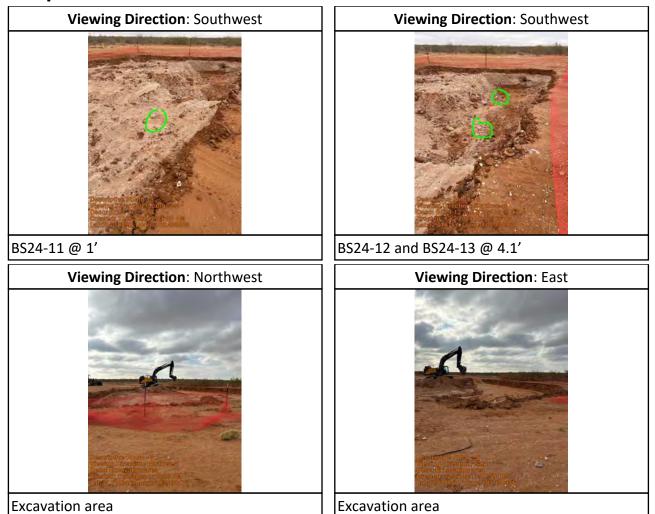
3 Schedule confirmation sampling event



Site Photos

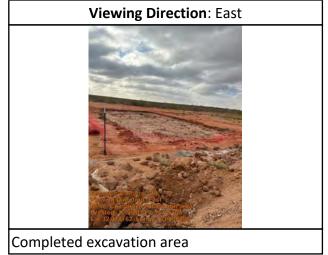














Daily Site Visit Signature

Inspector: Riley Arnold

Signature:



Client: Devon Energy Inspection Date: 12/5/2024

Corporation

Site Location Name: Rattlesnake Federal Unit Report Run Date: 12/10/2024 9:41 PM

1

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 12/5/2024 8:00 AM

Departed Site 12/5/2024 3:30 PM

Field Notes

13:41 Confirmation samples

13:42 Samples were field screened to assure site criteria was met

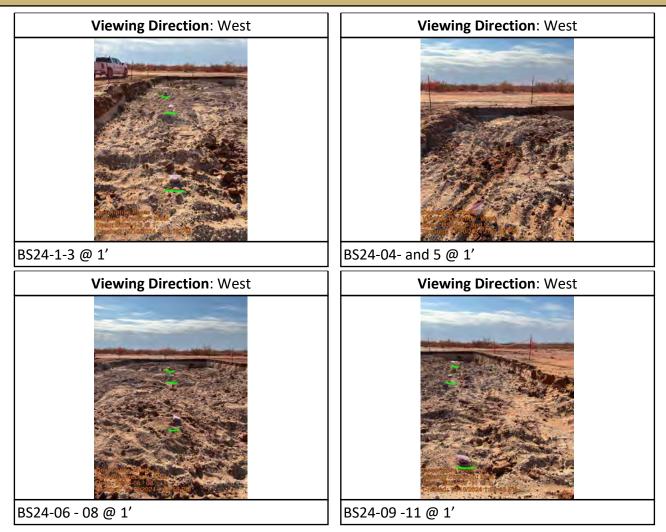
Next Steps & Recommendations

1 Complete field screening

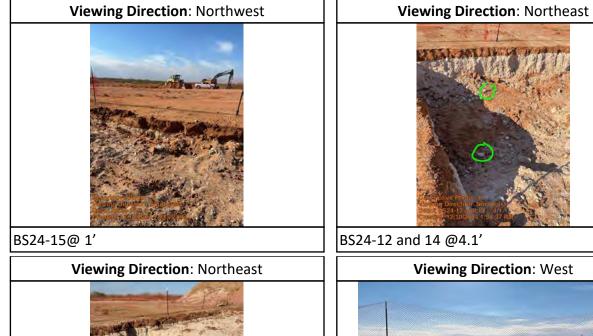
2 Jar and coc samples for lab



Site Photos



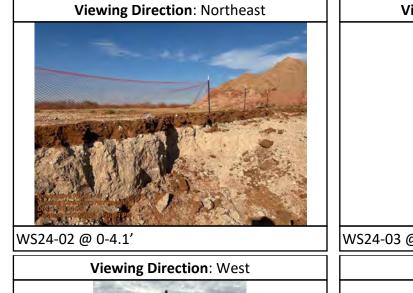


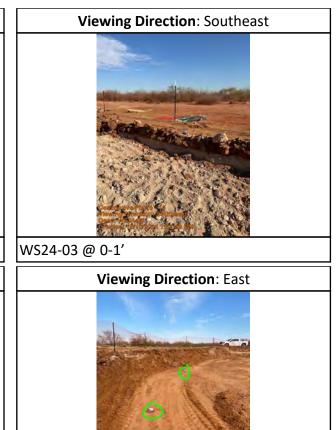




BS24-13 @ 4.1'



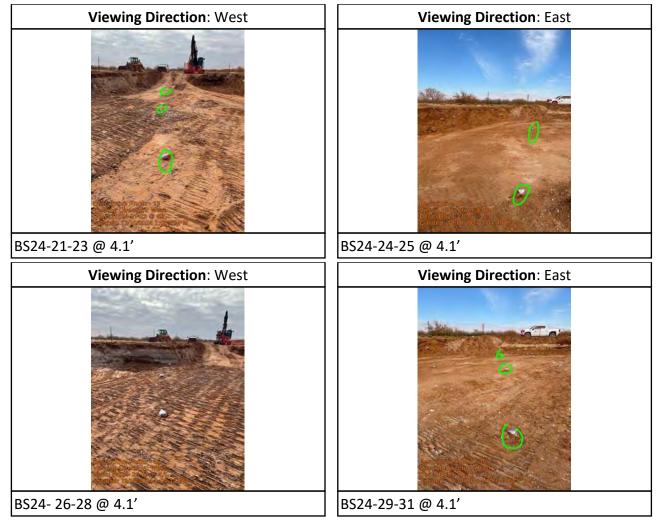




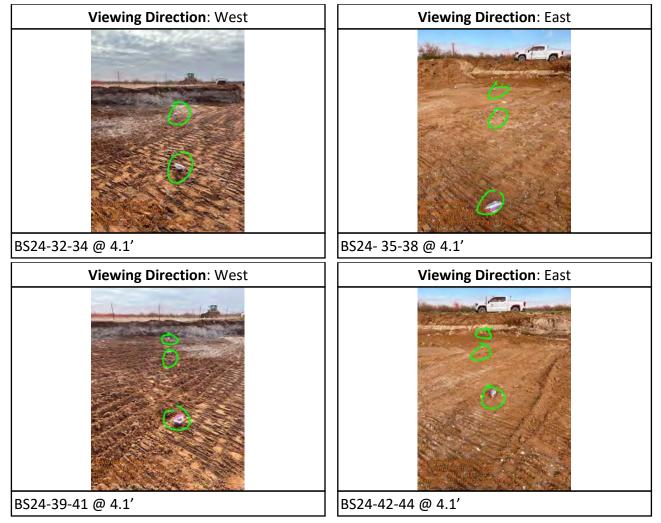




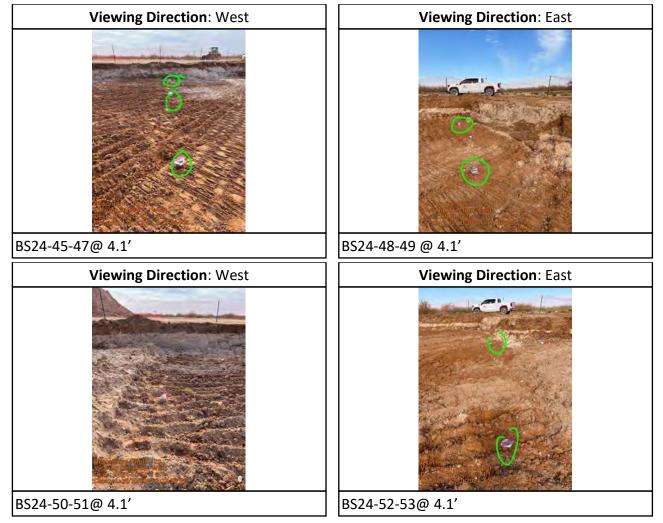




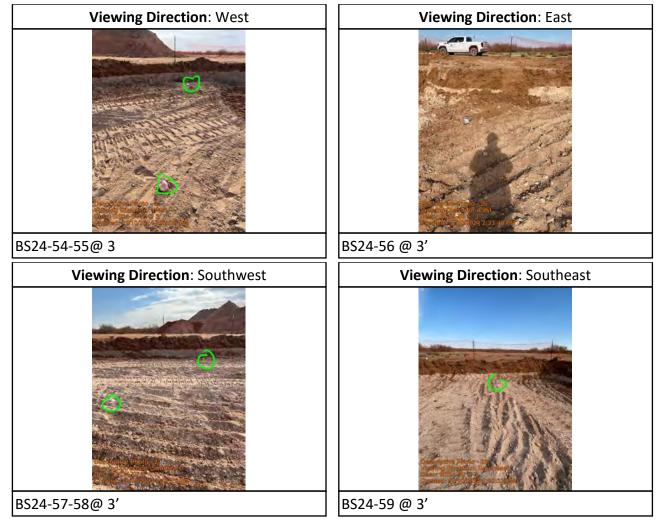














Daily Site Visit Signature

Inspector: Riley Arnold

Signature: Signature

APPENDIX D – Laboratory Data Reports and Chain of Custody Forms



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

September 21, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336 FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2309637

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 10:00:00 AM

 Lab ID:
 2309637-001
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	9/14/2023 2:15:22 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	9/14/2023 2:15:22 PM
Surr: DNOP	121	69-147	%Rec	1	9/14/2023 2:15:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2023 3:46:00 PM
Surr: BFB	99.3	15-244	%Rec	1	9/15/2023 3:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/15/2023 3:46:00 PM
Toluene	ND	0.049	mg/Kg	1	9/15/2023 3:46:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2023 3:46:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2023 3:46:00 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146	%Rec	1	9/15/2023 3:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	9/15/2023 11:49:42 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/11/2023 10:10:00 AM

Lab ID: 2309637-002 **Matrix:** SOIL **Received Date:** 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/14/2023 2:26:05 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/14/2023 2:26:05 PM
Surr: DNOP	110	69-147	%Rec	1	9/14/2023 2:26:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/15/2023 4:30:00 PM
Surr: BFB	98.3	15-244	%Rec	1	9/15/2023 4:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/15/2023 4:30:00 PM
Toluene	ND	0.048	mg/Kg	1	9/15/2023 4:30:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/15/2023 4:30:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/15/2023 4:30:00 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	9/15/2023 4:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	9/16/2023 12:02:07 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 4.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 10:20:00 AM

 Lab ID:
 2309637-003
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/14/2023 2:36:48 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/14/2023 2:36:48 PM
Surr: DNOP	132	69-147	%Rec	1	9/14/2023 2:36:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2023 4:51:00 PM
Surr: BFB	102	15-244	%Rec	1	9/15/2023 4:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/15/2023 4:51:00 PM
Toluene	ND	0.049	mg/Kg	1	9/15/2023 4:51:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2023 4:51:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2023 4:51:00 PM
Surr: 4-Bromofluorobenzene	87.2	39.1-146	%Rec	1	9/15/2023 4:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	71	60	mg/Kg	20	9/16/2023 12:39:19 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 14

Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 10:30:00 AM

 Lab ID:
 2309637-004
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	9/15/2023 4:02:28 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/15/2023 4:02:28 PM
Surr: DNOP	114	69-147	%Rec	1	9/15/2023 4:02:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/16/2023 12:42:24 AM
Surr: BFB	96.6	15-244	%Rec	1	9/16/2023 12:42:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	9/16/2023 12:42:24 AM
Toluene	ND	0.047	mg/Kg	1	9/16/2023 12:42:24 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/16/2023 12:42:24 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/16/2023 12:42:24 AM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/16/2023 12:42:24 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	9/16/2023 12:51:43 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 10:40:00 AM

 Lab ID:
 2309637-005
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	9/14/2023 2:47:31 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/14/2023 2:47:31 PM
Surr: DNOP	93.1	69-147	%Rec	1	9/14/2023 2:47:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2023 5:13:00 PM
Surr: BFB	94.5	15-244	%Rec	1	9/15/2023 5:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/15/2023 5:13:00 PM
Toluene	ND	0.049	mg/Kg	1	9/15/2023 5:13:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2023 5:13:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2023 5:13:00 PM
Surr: 4-Bromofluorobenzene	86.9	39.1-146	%Rec	1	9/15/2023 5:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	9/16/2023 1:04:08 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 10:50:00 AM

 Lab ID:
 2309637-006
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/14/2023 2:58:25 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/14/2023 2:58:25 PM
Surr: DNOP	125	69-147	%Rec	1	9/14/2023 2:58:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/15/2023 5:35:00 PM
Surr: BFB	96.9	15-244	%Rec	1	9/15/2023 5:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/15/2023 5:35:00 PM
Toluene	ND	0.048	mg/Kg	1	9/15/2023 5:35:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/15/2023 5:35:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/15/2023 5:35:00 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146	%Rec	1	9/15/2023 5:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	1400	60	mg/Kg	20	9/16/2023 1:16:33 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 2.0

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 11:00:00 AM

 Lab ID:
 2309637-007
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/15/2023 4:13:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/15/2023 4:13:09 PM
Surr: DNOP	118	69-147	%Rec	1	9/15/2023 4:13:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/15/2023 3:18:59 PM
Surr: BFB	97.8	15-244	%Rec	1	9/15/2023 3:18:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	9/15/2023 3:18:59 PM
Toluene	ND	0.047	mg/Kg	1	9/15/2023 3:18:59 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/15/2023 3:18:59 PM
Xylenes, Total	ND	0.093	mg/Kg	1	9/15/2023 3:18:59 PM
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	1	9/15/2023 3:18:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	9/16/2023 1:28:58 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 4.0

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/11/2023 11:10:00 AM

 Lab ID:
 2309637-008
 Matrix: SOIL
 Received Date: 9/13/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/15/2023 4:23:59 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/15/2023 4:23:59 PM
Surr: DNOP	100	69-147	%Rec	1	9/15/2023 4:23:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/15/2023 4:29:16 PM
Surr: BFB	96.6	15-244	%Rec	1	9/15/2023 4:29:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/15/2023 4:29:16 PM
Toluene	ND	0.049	mg/Kg	1	9/15/2023 4:29:16 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/15/2023 4:29:16 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/15/2023 4:29:16 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/15/2023 4:29:16 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/18/2023 12:04:06 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309637**

21-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: MB-77551 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77551 RunNo: 99735

Prep Date: 9/15/2023 Analysis Date: 9/15/2023 SeqNo: 3645363 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77551 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77551 RunNo: 99735

Prep Date: 9/15/2023 Analysis Date: 9/15/2023 SeqNo: 3645364 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 90 110

Sample ID: MB-77567 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77567 RunNo: 99788

Prep Date: 9/18/2023 Analysis Date: 9/18/2023 SeqNo: 3647767 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77567 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77567 RunNo: 99788

Prep Date: 9/18/2023 Analysis Date: 9/18/2023 SeqNo: 3647769 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309637**

21-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-77491	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID: LCSS	Batch	n ID: 774	491	F	RunNo: 99	9723					
Prep Date: 9/13/2023	Analysis D	Date: 9/	14/2023	5	SeqNo: 30	644695	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	65	10	50.00	0	131	61.9	130			S	
Surr: DNOP	6.7		5.000		133	69	147				
Sample ID: MB-77491	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID: PBS	Batch	n ID: 77 4	491	F	RunNo: 99	9723					
Prep Date: 9/13/2023	Analysis D	Date: 9/	14/2023	5	SeqNo: 36	644696	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	14		10.00		4.40						
	17		10.00		140	69	147				
Sample ID: LCS-77525		ype: LC		Tes			147 8015M/D: Die	esel Range	Organics		
Sample ID: LCS-77525 Client ID: LCSS	SampT	ype: LC	s			PA Method		esel Range	Organics		
	SampT	n ID: 77 !	S 525	F	tCode: EF	PA Method 9724			Organics		
Client ID: LCSS	SampT Batch	n ID: 77 !	S 525	F	tCode: EF RunNo: 9 9	PA Method 9724	8015M/D: Die		Organics RPDLimit	Qual	
Client ID: LCSS Prep Date: 9/14/2023	SampT Batch Analysis D	n ID: 77 ! Date: 9/	S 525 15/2023	F	atCode: EFRunNo: 99	PA Method 9724 644757	8015M/D: Die	(g		Qual	
Client ID: LCSS Prep Date: 9/14/2023 Analyte	SampT Batch Analysis D Result	n ID: 77! Date: 9/ PQL	525 15/2023 SPK value	SPK Ref Val	etCode: EF RunNo: 99 SeqNo: 30 %REC	PA Method 9724 644757 LowLimit	8015M/D: Die Units: mg/k HighLimit	(g		Qual	
Client ID: LCSS Prep Date: 9/14/2023 Analyte Diesel Range Organics (DRO)	SampT Batch Analysis E Result 50 5.4	n ID: 77! Date: 9/ PQL	S525 15/2023 SPK value 50.00 5.000	SPK Ref Val	stCode: EF RunNo: 99 SeqNo: 36 %REC 101 109	PA Method 9724 644757 LowLimit 61.9 69	8015M/D: Die Units: mg/k HighLimit 130	(g %RPD	RPDLimit	Qual	
Client ID: LCSS Prep Date: 9/14/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP	SampT Batch Analysis D Result 50 5.4 SampT	PQL 10	\$ 525 15/2023 SPK value 50.00 5.000	SPK Ref Val 0	stCode: EF RunNo: 99 SeqNo: 36 %REC 101 109	PA Method 9724 644757 LowLimit 61.9 69	8015M/D: Die Units: mg/k HighLimit 130 147	(g %RPD	RPDLimit	Qual	
Client ID: LCSS Prep Date: 9/14/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-77525	SampT Batch Analysis D Result 50 5.4 SampT	PQL 10 Type: ME TID: 775	S 525 15/2023 SPK value 50.00 5.000	SPK Ref Val 0	stCode: EF RunNo: 99 SeqNo: 36 %REC 101 109	PA Method 9724 644757 LowLimit 61.9 69 PA Method	8015M/D: Die Units: mg/k HighLimit 130 147	%RPD	RPDLimit	Qual	
Client ID: LCSS Prep Date: 9/14/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-77525 Client ID: PBS	SampT Batch Analysis D Result 50 5.4 SampT Batch	PQL 10 Type: ME TID: 775	S 525 15/2023 SPK value 50.00 5.000 8LK 525 15/2023	SPK Ref Val 0	stCode: EF RunNo: 99 SeqNo: 36 %REC 101 109 stCode: EF RunNo: 99	PA Method 9724 644757 LowLimit 61.9 69 PA Method	8015M/D: Die Units: mg/k HighLimit 130 147 8015M/D: Die	%RPD	RPDLimit	Qual	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

Surr: DNOP

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

ND

11

50

10.00

B Analyte detected in the associated Method Blank

115

69

147

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2309637

21-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-77482 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 77482 RunNo: 99696 Analysis Date: 9/14/2023 SeqNo: 3643762 Prep Date: 9/13/2023 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 88.0 70 130 Surr: BFB 2200 1000 221 15 244

Sample ID: mb-77482 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 77482 RunNo: 99696 Prep Date: 9/13/2023 Analysis Date: 9/15/2023 SeqNo: 3643763 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDI imit Qual Gasoline Range Organics (GRO) ND 5.0 970 1000 Surr: BFB 97.3 15 244

TestCode: EPA Method 8015D: Gasoline Range Sample ID: Ics-77494 SampType: LCS Client ID: LCSS Batch ID: 77494 RunNo: 99729 Prep Date: 9/13/2023 Analysis Date: 9/15/2023 SeqNo: 3645788 Units: mg/Kg Result Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 105 70 130 Surr: BFB 2100 1000 208 15 244

Sample ID: mb-77494 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range **PBS** Client ID: Batch ID: 77494 RunNo: 99729 Analysis Date: 9/15/2023 Prep Date: 9/13/2023 SeqNo: 3645790 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND Gasoline Range Organics (GRO) 5.0 Surr: BFB 990 1000 98.7 15 244

Sample ID: 2309637-007ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range BH23-03 2.0 Batch ID: 77494 Client ID: RunNo: 99729 Units: mg/Kg Prep Date: 9/13/2023 Analysis Date: 9/15/2023 SeqNo: 3645800 %REC Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.6 23.19 0 97.1 70 130 Surr: BFB 1900 927.6 210 15 244

Sample ID: 2309637-007amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-03 2.0 Batch ID: 77494 RunNo: 99729

Prep Date: Analysis Date: 9/15/2023 SeqNo: 3645801 9/13/2023 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** POI %REC HighLimit Qual Analyte Result LowLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Ouanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2000

WO#: **2309637**

21-Sep-23

Client: Devon Energy

Surr: BFB

Project: Rattlesnake Federal Unit 001

Sample ID: 2309637-007amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-03 2.0 Batch ID: 77494 RunNo: 99729 Prep Date: 9/13/2023 Analysis Date: 9/15/2023 SeqNo: 3645801 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 23.28 0 70 130 7.44 20 Gasoline Range Organics (GRO) 24 4.7 104

211

15

244

0

0

931.1

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309637**

21-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-77482	Samp ⁻	SampType: LCS TestCode: EPA Method 8						iles			
Client ID: LCSS	Batc	h ID: 77 4	182	F	RunNo: 99	9696					
Prep Date: 9/13/2023	Analysis [Date: 9/	15/2023		SeqNo: 36	643842	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	89.9	70	130				
Toluene	0.89	0.050	1.000	0	89.3	70	130				
Ethylbenzene	0.92	0.050	1.000	0	91.8	70	130				
Xylenes, Total	2.8	0.10	3.000	0	92.3	70	130				
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	39.1	146				

Sample ID: mb-77482	Samp1	ype: MB	SLK	Tes	tCode: EF	8021B: Volati	les				
Client ID: PBS	Batch	n ID: 77 4	182	F	RunNo: 99	9696					
Prep Date: 9/13/2023	Analysis D	Date: 9/1	15/2023	8	SeqNo: 36	643843	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	39.1	146				

Sample ID: LCS-77494	Samp1	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volatiles					
Client ID: LCSS	Batcl	h ID: 77 4	194	F	RunNo: 99	729						
Prep Date: 9/13/2023	Analysis [Date: 9/ 1	15/2023	5	SeqNo: 36	645869	Units: mg/K	nits: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.99	0.025	1.000	0	99.3	70	130					
Toluene	0.99	0.050	1.000	0	99.2	70	130					
Ethylbenzene	0.99	0.050	1.000	0	99.1	70	130					
Xylenes, Total	3.0	0.10	3.000	0	99.4	70	130					
Surr: 4-Bromofluorobenzene	1.1		1.000		109	39.1	146					

Sample ID: mb-77494 SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 77494			RunNo: 99729						
Prep Date: 9/13/2023	Analysis Date: 9/15/2023			SeqNo: 3645871			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309637**

21-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: 2309637-008ams Client ID: BH23-03 4.0	SampType: MS Batch ID: 77494			TestCode: EPA Method 8021B: Volatiles RunNo: 99729						
Prep Date: 9/13/2023	Analysis Date: 9/15/2023			SeqNo: 3645876			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9833	0	108	70	130			
Toluene	1.1	0.049	0.9833	0	109	70	130			
Ethylbenzene	1.1	0.049	0.9833	0	109	70	130			
Xylenes, Total	3.2	0.098	2.950	0	109	70	130			
Surr: 4-Bromofluorobenzene	1.1		0.9833		108	39.1	146			

Sample ID: 2309637-008ams	d Samp	SampType: MSD Batch ID: 77494			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-03 4.0	Bato				RunNo: 99729						
Prep Date: 9/13/2023	Analysis	Date: 9/	15/2023	5	SeqNo: 3645877			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	0.9891	0	109	70	130	0.878	20		
Toluene	1.1	0.049	0.9891	0	110	70	130	1.31	20		
Ethylbenzene	1.1	0.049	0.9891	0	109	70	130	0.866	20		
Xylenes, Total	3.3	0.099	2.967	0	110	70	130	0.911	20		
Surr: 4-Bromofluorobenzene	1.1		0.9891		109	39.1	146	0	0		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Devon Energy	Work Order Number	2309637		RcptNo:	1
Received By:	Tracy Casarrubias	9/13/2023 7:45:00 AM				
Completed By:	Tracy Casarrubias	9/13/2023 8:26:27 AM				
Reviewed By:	\$ 9-13-23					
Chain of Cus	/ stody					
	ustody complete?		Yes	No 🗹	Not Present	
	sample delivered?		Courier			
Log In				,		
	npt made to cool the sample	es?	Yes ✓	No 19/13/23 /	NA 🗌	
4. Were all sam	ples received at a temperate	ure of >0° C to 6.0°C	Yes 🔽	No 🗹	NA 🗌	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated tes	st(s)?	Yes 🗸	No 🗌		
7. Are samples ((except VOA and ONG) proj	perly preserved?	Yes 🗸	No 🗌		
8. Was preserva	ative added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspace <	:1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sar	mple containers received br	oken?	Yes	No 🔽	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🗸	No 🗌	bottles checked for pH: (<2 or	>12 unless noted)
	correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
3. Is it clear wha	t analyses were requested?	•	Yes 🗹	No 🗌		1.00
	ing times able to be met? sustomer for authorization.)		Yes 🗸	No 🗆	Checked by:	ma/13/23
Special Hand	ling (if applicable)					
15. Was client no	otified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date:	Name and Address			
By Who	om:	Via:	eMailF	Phone Fax	In Person	
Regard	ling:					
Client I	nstructions: Mailing address	ss, phone number and Ema	il/Fax are missi	ng on COC - TM	C 9/13/23	
16. Additional re	emarks:					
Client	did not relinquish chain of cu	ustody				
17. Cooler Info	rmation	-				
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	19.0 Good	Yes Yogi	Jeai Dale	Oigiliou Dy		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV) 09S8 (AOV-imes) 07S8 (InesdAltnesent) moliform (Present/Absent)	ctallings overhouse	Charries of Refer, Consultation of the analytical report.
HALL EI ANALYS ANALYS www.hallenv 4901 Hawkins NE - Alb Tel. 505-345-3975 F	### BTEX MTBE / TMB's (8021) ### PAHs by 8310 or 8270SIMS Remarks:	and any sub-contracted data will be	
Turn-Around Time: Standard Z Rush 5 Day Project Name: Rathernake Fober Unit Hall Project #:	Project Manager: Kent Stills Sampler: Att On ice:	Via:	Time: Relinquished by: Received by: Mar. QWM. Date Time AND CWM. Date Time AND COMM. Date Date Time AND COMM. Date Date Time AND COMM. Date Date Date Time AND COMM. Date Date Date Date Date Date Date Date
	6.6 7.0 7.0 7.0 7.0 7.0 7.0	Received by:	Received by: Ironmental may be adboontracted to other accre
Chain-of-Custody Record Chain-of-Custody Record Chain-of-Custody Record Chain-of-Custody Record Address:	D Other Ser/	Time: Relinquished by:	Time: Relinquished by: A OD Charles & Comment of the Environment
Chain-Chent: Ch	Date Time Construction	Date:	



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

September 25, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Rattlesnake Fed Unit 001 OrderNo.: 2309763

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 18 sample(s) on 9/14/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 0'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 9:00:00 AM

 Lab ID:
 2309763-001
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 9/19/2023 10:28:38 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 9/19/2023 10:28:38 PM Surr: DNOP %Rec 1 116 69-147 9/19/2023 10:28:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 3:11:11 PM 4.9 mg/Kg 1 Surr: BFB 98.7 15-244 %Rec 1 9/19/2023 3:11:11 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 9/19/2023 3:11:11 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/19/2023 3:11:11 PM Ethylbenzene ND 0.049 mg/Kg 1 9/19/2023 3:11:11 PM Xylenes, Total ND 0.098 mg/Kg 1 9/19/2023 3:11:11 PM Surr: 4-Bromofluorobenzene 107 39.1-146 %Rec 1 9/19/2023 3:11:11 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride ND 60 20 9/20/2023 7:55:45 PM mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 2'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 9:10:00 AM

 Lab ID:
 2309763-002
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 9/19/2023 10:39:37 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/19/2023 10:39:37 PM Surr: DNOP %Rec 1 9/19/2023 10:39:37 PM 105 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/19/2023 3:34:35 PM 4.9 mg/Kg 1 Surr: BFB 96.3 15-244 %Rec 1 9/19/2023 3:34:35 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 3:34:35 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/19/2023 3:34:35 PM Ethylbenzene ND 0.049 mg/Kg 1 9/19/2023 3:34:35 PM Xylenes, Total ND 0.097 mg/Kg 1 9/19/2023 3:34:35 PM Surr: 4-Bromofluorobenzene 105 39.1-146 %Rec 1 9/19/2023 3:34:35 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 100 61 20 9/20/2023 9:22:10 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 4'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 9:20:00 AM

 Lab ID:
 2309763-003
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 9/19/2023 10:50:36 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 9/19/2023 10:50:36 PM Surr: DNOP %Rec 1 9/19/2023 10:50:36 PM 106 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 3:58:15 PM 4.8 mg/Kg 1 Surr: BFB 96.6 15-244 %Rec 1 9/19/2023 3:58:15 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 3:58:15 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 3:58:15 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 3:58:15 PM Xylenes, Total ND 0.096 mg/Kg 1 9/19/2023 3:58:15 PM Surr: 4-Bromofluorobenzene 105 39.1-146 %Rec 1 9/19/2023 3:58:15 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 450 60 20 9/20/2023 9:34:30 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 0'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 9:30:00 AM

 Lab ID:
 2309763-004
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 9/19/2023 11:01:33 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 9/19/2023 11:01:33 PM Surr: DNOP %Rec 1 110 69-147 9/19/2023 11:01:33 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/19/2023 4:21:41 PM 4.8 mg/Kg 1 Surr: BFB 95.5 15-244 %Rec 1 9/19/2023 4:21:41 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 4:21:41 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 4:21:41 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 4:21:41 PM Xylenes, Total ND 0.096 mg/Kg 1 9/19/2023 4:21:41 PM Surr: 4-Bromofluorobenzene 104 39.1-146 %Rec 1 9/19/2023 4:21:41 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 230 59 20 9/20/2023 9:46:50 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2309763-005

Lab ID:

Analytical Report Lab Order 2309763

Received Date: 9/14/2023 7:40:00 AM

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 2'

Matrix: SOIL

Project: Rattlesnake Fed Unit 001 **Collection Date:** 9/12/2023 9:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 9/19/2023 11:12:30 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 9/19/2023 11:12:30 PM Surr: DNOP %Rec 1 122 69-147 9/19/2023 11:12:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 5:08:37 PM 4.8 mg/Kg 1 Surr: BFB 93.7 15-244 %Rec 1 9/19/2023 5:08:37 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 5:08:37 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 5:08:37 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 5:08:37 PM Xylenes, Total ND 0.097 mg/Kg 1 9/19/2023 5:08:37 PM Surr: 4-Bromofluorobenzene 102 39.1-146 %Rec 1 9/19/2023 5:08:37 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 600 59 20 9/20/2023 9:59:10 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 22

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 4'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 9:50:00 AM

 Lab ID:
 2309763-006
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/19/2023 11:23:26 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/19/2023 11:23:26 PM Surr: DNOP %Rec 1 106 69-147 9/19/2023 11:23:26 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/19/2023 5:32:01 PM 4.9 mg/Kg 1 Surr: BFB 95.1 15-244 %Rec 1 9/19/2023 5:32:01 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 5:32:01 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/19/2023 5:32:01 PM Ethylbenzene ND 0.049 mg/Kg 1 9/19/2023 5:32:01 PM Xylenes, Total ND 0.098 mg/Kg 1 9/19/2023 5:32:01 PM Surr: 4-Bromofluorobenzene 104 39.1-146 %Rec 1 9/19/2023 5:32:01 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 1600 60 20 9/20/2023 10:11:32 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 22

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 0'

Project: Rattlesnake Fed Unit 001 Collection Date: 9/12/2023 10:00:00 AM

Lab ID: 2309763-007 **Matrix:** SOIL **Received Date:** 9/14/2023 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/19/2023 11:34:20 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/19/2023 11:34:20 PM
Surr: DNOP	116	69-147	%Rec	1	9/19/2023 11:34:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/19/2023 5:55:24 PM
Surr: BFB	96.6	15-244	%Rec	1	9/19/2023 5:55:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/19/2023 5:55:24 PM
Toluene	ND	0.050	mg/Kg	1	9/19/2023 5:55:24 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/19/2023 5:55:24 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/19/2023 5:55:24 PM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/19/2023 5:55:24 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	680	60	mg/Kg	20	9/20/2023 10:23:52 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 2'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 10:10:00 AM

 Lab ID:
 2309763-008
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 9/19/2023 11:45:15 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/19/2023 11:45:15 PM Surr: DNOP %Rec 1 111 69-147 9/19/2023 11:45:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/19/2023 6:18:49 PM 4.8 mg/Kg 1 Surr: BFB 93.3 15-244 %Rec 1 9/19/2023 6:18:49 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 6:18:49 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 6:18:49 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 6:18:49 PM Xylenes, Total ND 0.097 mg/Kg 1 9/19/2023 6:18:49 PM Surr: 4-Bromofluorobenzene 102 39.1-146 %Rec 1 9/19/2023 6:18:49 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 180 60 20 9/20/2023 11:00:55 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 22

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 4'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 10:20:00 AM

 Lab ID:
 2309763-009
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 14 9.8 mg/Kg 1 9/19/2023 11:56:10 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 9/19/2023 11:56:10 PM Surr: DNOP %Rec 1 9/19/2023 11:56:10 PM 130 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 6:42:25 PM 4.8 mg/Kg 1 Surr: BFB 98.0 15-244 %Rec 1 9/19/2023 6:42:25 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 6:42:25 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 6:42:25 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 6:42:25 PM Xylenes, Total ND 0.097 mg/Kg 1 9/19/2023 6:42:25 PM Surr: 4-Bromofluorobenzene 107 39.1-146 %Rec 1 9/19/2023 6:42:25 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 150 60 20 9/20/2023 11:13:15 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 22

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 0'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 10:30:00 AM

 Lab ID:
 2309763-010
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/20/2023 12:07:01 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/20/2023 12:07:01 AM Surr: DNOP %Rec 1 102 69-147 9/20/2023 12:07:01 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 7:05:45 PM 4.8 mg/Kg 1 Surr: BFB 97.7 15-244 %Rec 1 9/19/2023 7:05:45 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 7:05:45 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 7:05:45 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 7:05:45 PM Xylenes, Total ND 0.096 mg/Kg 1 9/19/2023 7:05:45 PM Surr: 4-Bromofluorobenzene 107 39.1-146 %Rec 1 9/19/2023 7:05:45 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 1100 59 20 9/20/2023 11:25:36 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 2'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 10:40:00 AM

 Lab ID:
 2309763-011
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	9/20/2023 12:17:54 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 12:17:54 AM
Surr: DNOP	118	69-147	%Rec	1	9/20/2023 12:17:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2023 7:29:08 PM
Surr: BFB	96.9	15-244	%Rec	1	9/19/2023 7:29:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/19/2023 7:29:08 PM
Toluene	ND	0.048	mg/Kg	1	9/19/2023 7:29:08 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2023 7:29:08 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/19/2023 7:29:08 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/19/2023 7:29:08 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	370	60	mg/Kg	20	9/20/2023 11:37:56 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 4'

Project: Rattlesnake Fed Unit 001 Collection Date: 9/12/2023 10:50:00 AM Lab ID: 2309763-012 Matrix: SOIL Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 9/20/2023 12:28:49 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/20/2023 12:28:49 AM Surr: DNOP %Rec 1 107 69-147 9/20/2023 12:28:49 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/19/2023 7:52:47 PM 4.8 mg/Kg 1 Surr: BFB 96.5 15-244 %Rec 1 9/19/2023 7:52:47 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/19/2023 7:52:47 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 7:52:47 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 7:52:47 PM Xylenes, Total ND 0.097 mg/Kg 1 9/19/2023 7:52:47 PM Surr: 4-Bromofluorobenzene 104 39.1-146 %Rec 1 9/19/2023 7:52:47 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 200 59 20 9/20/2023 11:50:17 PM mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-08 0'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 11:00:00 AM

 Lab ID:
 2309763-013
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/20/2023 12:39:43 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/20/2023 12:39:43 AM
Surr: DNOP	96.6	69-147	%Rec	1	9/20/2023 12:39:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/19/2023 8:16:06 PM
Surr: BFB	99.7	15-244	%Rec	1	9/19/2023 8:16:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/19/2023 8:16:06 PM
Toluene	ND	0.047	mg/Kg	1	9/19/2023 8:16:06 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/19/2023 8:16:06 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/19/2023 8:16:06 PM
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	9/19/2023 8:16:06 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	690	59	mg/Kg	20	9/21/2023 12:02:38 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-08 2'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 11:10:00 AM

 Lab ID:
 2309763-014
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	11	10	mg/Kg	1	9/20/2023 12:50:34 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/20/2023 12:50:34 AM
Surr: DNOP	118	69-147	%Rec	1	9/20/2023 12:50:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/20/2023 12:29:47 PM
Surr: BFB	97.8	15-244	%Rec	1	9/20/2023 12:29:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/20/2023 12:29:47 PM
Toluene	ND	0.049	mg/Kg	1	9/20/2023 12:29:47 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/20/2023 12:29:47 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/20/2023 12:29:47 PM
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	1	9/20/2023 12:29:47 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	190	60	mg/Kg	20	9/21/2023 12:14:58 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-08 4'

Project: Rattlesnake Fed Unit 001 Collection Date: 9/12/2023 11:20:00 AM Lab ID: 2309763-015 Matrix: SOIL Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 10 mg/Kg 1 9/20/2023 1:01:25 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 9/20/2023 1:01:25 AM Surr: DNOP %Rec 1 120 69-147 9/20/2023 1:01:25 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/20/2023 12:53:07 PM 4.8 mg/Kg 1 Surr: BFB 96.1 15-244 %Rec 1 9/20/2023 12:53:07 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 9/20/2023 12:53:07 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/20/2023 12:53:07 PM Ethylbenzene ND 0.048 mg/Kg 1 9/20/2023 12:53:07 PM Xylenes, Total ND 0.096 mg/Kg 1 9/20/2023 12:53:07 PM Surr: 4-Bromofluorobenzene 107 39.1-146 %Rec 1 9/20/2023 12:53:07 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 130 61 20 9/21/2023 12:27:18 AM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 22

Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-09 0'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 11:30:00 AM

 Lab ID:
 2309763-016
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/20/2023 1:12:14 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 1:12:14 AM
Surr: DNOP	93.4	69-147	%Rec	1	9/20/2023 1:12:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/20/2023 1:16:25 PM
Surr: BFB	95.9	15-244	%Rec	1	9/20/2023 1:16:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/20/2023 1:16:25 PM
Toluene	ND	0.047	mg/Kg	1	9/20/2023 1:16:25 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/20/2023 1:16:25 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/20/2023 1:16:25 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/20/2023 1:16:25 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	170	61	mg/Kg	20	9/21/2023 12:39:39 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-09 2'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 11:40:00 AM

 Lab ID:
 2309763-017
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 9/20/2023 2:28:15 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 9/20/2023 2:28:15 AM Surr: DNOP %Rec 1 103 69-147 9/20/2023 2:28:15 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/19/2023 4:12:00 PM 4.8 mg/Kg 1 Surr: BFB 98.9 15-244 %Rec 1 9/19/2023 4:12:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 9/19/2023 4:12:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/19/2023 4:12:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/19/2023 4:12:00 PM Xylenes, Total ND 0.095 mg/Kg 1 9/19/2023 4:12:00 PM Surr: 4-Bromofluorobenzene 88.9 39.1-146 %Rec 1 9/19/2023 4:12:00 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 62 60 20 9/21/2023 12:51:59 AM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/25/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-09 4'

 Project:
 Rattlesnake Fed Unit 001
 Collection Date: 9/12/2023 11:50:00 AM

 Lab ID:
 2309763-018
 Matrix: SOIL
 Received Date: 9/14/2023 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/20/2023 2:39:08 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 2:39:08 AM
Surr: DNOP	105	69-147	%Rec	1	9/20/2023 2:39:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/19/2023 4:33:00 PM
Surr: BFB	99.2	15-244	%Rec	1	9/19/2023 4:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/19/2023 4:33:00 PM
Toluene	ND	0.049	mg/Kg	1	9/19/2023 4:33:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/19/2023 4:33:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/19/2023 4:33:00 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	9/19/2023 4:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	9/21/2023 1:29:00 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309763**

25-Sep-23

Client: Devon Energy

Project: Rattlesnake Fed Unit 001

Sample ID: MB-77654 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77654 RunNo: 99854

Prep Date: 9/20/2023 Analysis Date: 9/20/2023 SeqNo: 3652019 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77654 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77654 RunNo: 99854

Prep Date: 9/20/2023 Analysis Date: 9/20/2023 SeqNo: 3652020 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309763**

25-Sep-23

Client: Devon Energy

Project: Rattlesnake Fed Unit 001

Sample ID: MB-77580	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batc	h ID: 77	580	F	9810						
Prep Date: 9/19/2023	Analysis [Date: 9/	19/2023	9	SeqNo: 30	648794	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	11		10.00		114	69	147				
Sample ID: LCS-77580	Samp	Гуре: LC	S TestCode: EPA Method 8015M/D: Diesel Range Organics								

Client ID: LCSS	Batch	n ID: 775	580	F	RunNo: 99	9810					
Prep Date: 9/19/2023	Analysis D	Analysis Date: 9/19/2023			SeqNo: 3648795			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	54	10	50.00	0	109	61.9	130				
Surr: DNOP	5.4		5.000		108	69	147				

Sample ID: MB-77579	SampT	уре: МВ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 775	579	F	RunNo: 99	9809				
Prep Date: 9/18/2023	Analysis D	ate: 9/ 1	19/2023	5	SeqNo: 30	649079	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	69	147			

Sample ID: LCS-77579	Samp1	Type: LC	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batcl	h ID: 77	579	F	RunNo: 99809							
Prep Date: 9/18/2023	Analysis [Date: 9/	19/2023	5	SeqNo: 30	649081	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	61.9	130					
Surr: DNOP	5.5		5.000		110	69	147					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309763**

25-Sep-23

Client: Devon Energy

Project: Rattlesnake Fed Unit 001

Sample ID: Ics-77575	Samp1	ype: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 77575			F	RunNo: 99	9813						
Prep Date: 9/18/2023	Analysis [Date: 9/	19/2023	5	SeqNo: 36	648847	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	70	130					
Surr: BFB	2200		1000		216	15	244					
Sample ID: mb-77575	Samp1	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasolin								

Client ID: PBS	Batch	575	F	RunNo: 99	9813					
Prep Date: 9/18/2023	Analysis D	ate: 9/	19/2023	5	SeqNo: 36	648848	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	15	244			

Sample ID: Ics-77531	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Bate	ch ID: 77	531	F	RunNo: 99	9796				
Prep Date: 9/14/2023	Analysis	Date: 9/	19/2023	5	SeqNo: 36	649498	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GR		PQL 5.0	SPK value 25.00	SPK Ref Val	%REC 90.7	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual

Sample ID: mb-77531	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	:	
Client ID: PBS	Batch	n ID: 77	531	RunNo: 99796						
Prep Date: 9/14/2023	Analysis D	ate: 9/	19/2023	5	SeqNo: 36	649499	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0					_		_	
Surr: BFB	930		1000		93.2	15	244			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2309763**

25-Sep-23

Client: Devon Energy

Project: Rattlesnake Fed Unit 001

Sample ID: Ics-77575	Samp1	Гуре: LC	s	Tes	PA Method	8021B: Volati	iles			
Client ID: LCSS	Batcl	h ID: 775	575	F	RunNo: 9	9813				
Prep Date: 9/18/2023	Analysis [Date: 9/	19/2023	5	SeqNo: 30	648857	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.2	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	39.1	146			

Sample ID: mb-77575	Samp1	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batcl	h ID: 77	575	RunNo: 99813								
Prep Date: 9/18/2023	Analysis [Date: 9/	19/2023	SeqNo: 3648858 Unit			Units: mg/K	nits: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	39.1	146					

Sample ID: LCS-77531	SampType: LCS			TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 775	31	RunNo: 99796							
Prep Date: 9/14/2023	Analysis D	Date: 9/1	19/2023	SeqNo: 3649520			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	105	70	130				
Toluene	1.0	0.050	1.000	0	105	70	130				
Ethylbenzene	1.1	0.050	1.000	0	105	70	130				
Xylenes, Total	3.2	0.10	3.000	0	106	70	130				
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146				

Sample ID: mb-77531	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 775	531	RunNo: 99796						
Prep Date: 9/14/2023	Analysis D	Date: 9/	19/2023	9	SeqNo: 30	649521	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025					_			
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: De	von Energy	Work Order Number	2309763		RcptNo	p: 1
Received By: T	racy Casarrubias	9/14/2023 7:40:00 AM	i			
Completed By: T	racy Casarrubias	9/14/2023 9:13:18 AM	i			
Reviewed By:	49.14.23					
Chain of Custoo	lv					
1. Is Chain of Custo	_		Yes 🗌	No 🗸	Not Present	
2. How was the sam	ple delivered?		Courier			
Log In						
	nade to cool the samp	bles?	Yes 🗸	No 🗌	na 🗆	
4. Were all samples	received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in prop	per container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample	volume for indicated t	est(s)?	Yes 🗹	No 🗌		
7. Are samples (exce	ept VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗌		
8. Was preservative	added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at least	1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample	containers received l	oroken?	Yes 🗌	No 🗹	#	
					# of preserved bottles checked	
11. Does paperwork n	natch bottle labels? es on chain of custody	A)	Yes 🗸	No 📙	for pH: (<2 c	or >12 unless noted)
	ectly identified on Cha	•	Yes 🗌	No 🗹	Adjusted?	
	alyses were requested		Yes 🗸	No 🗌		Can ali
14. Were all holding ti (If no, notify custo	mes able to be met? mer for authorization.)	Yes 🗹	No 🗌	Checked by:	JUN 1/1
Special Handling		,			,	
	d of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Not	ified:	Date:		durant many manager		
By Whom:	p.	Via:	eMail	Phone Fax	☐ In Person	
Regarding:	p.					
Client Instru	uctions: Mailing addr	ess,phone number and Email	Fax are mis	sing on COC- TM	C 9/14/23	
16. Additional remar			= = =			
17. Cooler Informat Cooler No	<u>iion</u> Γemp ⁰C Condition	Seal Intact Seal No S	Seal Date	Signed Du		
1 1.		Yes Yogi	ocai Dale	Signed By		

ABORATORY ALCom 3, NM 87109 345-4107	5 1:21:57 PM	Page 126 of 3
HALL ENVIRONMENTAI ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH:8015D(GRO \ DRO \ MRO)	Date Time Remarks: KStallingsa/ercex.CR Date Time Date Time This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
	₩ BTEX / MTBE / TMB's (8021)	Remarks:
Turn-Around Time: Standard Rush 6 Daw Project Name: Rattle Snake Fed Unit 4001 Project #:	1.3 400 000 000 000 000 000 000 000 000 00	
Turn-Around Time: Standard Rush 6 Project Name: Rattle Snake Fed I Project #:	Project Manager: Kert Stal Sampler: AH On Ice: Wes # of Coolers: I Yes Container Preserva Type and # Type	Received by: Received by:
Chain-of-Custody Record Chain-of-Custody Record Chain-of-Custody Record Chain-of-Custody Record Chain-of-Custody Record	□ Level 4 (Full Validation) □ Az Compliance □ Other Matrix Sample Name SH23-04 21 BH23-04 42 BH23-04 42 BH23-06 01 BH23-05 21 BH23-05 21 BH23-05 41 BH23-05 21 BH23-05 41 BH23-05 21 BH23-05 41 BH23-05 41 BH23-05 41	
Chain-of Client: Chain-of Chain Chain Chain Chain Chain Chair Chai	Date Time Matrix Date Time Matrix Date Time Matrix OPTO 1050	

Received by OCD: 3/13/2025	1:21:57 PM	Page 127 of 358
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	Stallings (2 Ven taw)
	(ISO8) 8'BMT \ BBTM \ X3T8	Remarks:
Turn-Around Time: Standard KRush 5 Buy Project Name: Rattlesnake Ed Wuits 001 Project #:	Project Manager: Kent Stallings Sampler: At Stallings Sampler: At Stallings On Ice: Wing Yes	
Chain-of-Custody Record Client: Vertur Deven Suisaning Address: Suisaning Address:	email or Fax#: email or Fax#: email or Fax#: email or Fax#: Ax(QC Package: Campliance Campliance	1150 Cill (120 1150 1150 1150 1150 1150 1150 1150 1



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

September 26, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2309918

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 14 sample(s) on 9/16/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 5.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 10:00:00 AM

 Lab ID:
 2309918-001
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/20/2023 4:29:21 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 4:29:21 PM
Surr: DNOP	104	69-147	%Rec	1	9/20/2023 4:29:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/22/2023 6:37:00 PM
Surr: BFB	93.5	15-244	%Rec	1	9/22/2023 6:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/22/2023 6:37:00 PM
Toluene	ND	0.050	mg/Kg	1	9/22/2023 6:37:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/22/2023 6:37:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/22/2023 6:37:00 PM
Surr: 4-Bromofluorobenzene	86.9	39.1-146	%Rec	1	9/22/2023 6:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	230	60	mg/Kg	20	9/21/2023 9:18:27 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-10 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 10:10:00 AM

 Lab ID:
 2309918-002
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/20/2023 4:50:47 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 4:50:47 PM
Surr: DNOP	101	69-147	%Rec	1	9/20/2023 4:50:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/22/2023 6:59:00 PM
Surr: BFB	97.1	15-244	%Rec	1	9/22/2023 6:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/22/2023 6:59:00 PM
Toluene	ND	0.048	mg/Kg	1	9/22/2023 6:59:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/22/2023 6:59:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/22/2023 6:59:00 PM
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	9/22/2023 6:59:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	240	60	mg/Kg	20	9/21/2023 9:30:48 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-10 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/14/2023 10:20:00 AM Lab ID: 2309918-003 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/20/2023 5:01:34 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/20/2023 5:01:34 PM
Surr: DNOP	99.6	69-147	%Rec	1	9/20/2023 5:01:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/22/2023 7:20:00 PM
Surr: BFB	99.6	15-244	%Rec	1	9/22/2023 7:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/22/2023 7:20:00 PM
Toluene	ND	0.049	mg/Kg	1	9/22/2023 7:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/22/2023 7:20:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/22/2023 7:20:00 PM
Surr: 4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	9/22/2023 7:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	98	60	mg/Kg	20	9/21/2023 9:43:10 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Ε Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-11 0.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/14/2023 10:30:00 AM Lab ID: 2309918-004 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/20/2023 5:12:24 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/20/2023 5:12:24 PM
Surr: DNOP	118	69-147	%Rec	1	9/20/2023 5:12:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/22/2023 7:42:00 PM
Surr: BFB	95.9	15-244	%Rec	1	9/22/2023 7:42:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/22/2023 7:42:00 PM
Toluene	ND	0.050	mg/Kg	1	9/22/2023 7:42:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/22/2023 7:42:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/22/2023 7:42:00 PM
Surr: 4-Bromofluorobenzene	85.1	39.1-146	%Rec	1	9/22/2023 7:42:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	240	60	mg/Kg	20	9/21/2023 9:55:31 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-11 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/14/2023 10:40:00 AM Lab ID: 2309918-005 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 9/20/2023 5:23:11 PM Motor Oil Range Organics (MRO) 1 ND 49 mg/Kg 9/20/2023 5:23:11 PM Surr: DNOP 1 9/20/2023 5:23:11 PM 131 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 4.9 9/22/2023 8:26:00 PM mg/Kg 1 Surr: BFB 9/22/2023 8:26:00 PM 99.1 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 mg/Kg 1 9/22/2023 8:26:00 PM Toluene ND 0.049 mg/Kg 1 9/22/2023 8:26:00 PM Ethylbenzene mg/Kg 9/22/2023 8:26:00 PM ND 0.049 1 Xylenes, Total ND 0.098 mg/Kg 1 9/22/2023 8:26:00 PM Surr: 4-Bromofluorobenzene %Rec 87.3 39.1-146 1 9/22/2023 8:26:00 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC 9/21/2023 10:07:50 PM Chloride 250 61 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 10:50:00 AM

 Lab ID:
 2309918-006
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/20/2023 5:34:00 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/20/2023 5:34:00 PM
Surr: DNOP	91.8	69-147	%Rec	1	9/20/2023 5:34:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/22/2023 8:47:00 PM
Surr: BFB	95.8	15-244	%Rec	1	9/22/2023 8:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/22/2023 8:47:00 PM
Toluene	ND	0.049	mg/Kg	1	9/22/2023 8:47:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/22/2023 8:47:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/22/2023 8:47:00 PM
Surr: 4-Bromofluorobenzene	84.4	39.1-146	%Rec	1	9/22/2023 8:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	170	60	mg/Kg	20	9/21/2023 10:20:11 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/14/2023 11:00:00 AM Lab ID: 2309918-007 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	53	9.8	mg/Kg	1	9/20/2023 5:44:48 PM
Motor Oil Range Organics (MRO)	87	49	mg/Kg	1	9/20/2023 5:44:48 PM
Surr: DNOP	113	69-147	%Rec	1	9/20/2023 5:44:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/22/2023 9:09:00 PM
Surr: BFB	99.0	15-244	%Rec	1	9/22/2023 9:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/22/2023 9:09:00 PM
Toluene	ND	0.048	mg/Kg	1	9/22/2023 9:09:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/22/2023 9:09:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/22/2023 9:09:00 PM
Surr: 4-Bromofluorobenzene	85.7	39.1-146	%Rec	1	9/22/2023 9:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	1700	60	mg/Kg	20	9/21/2023 10:32:32 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 4.0

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 11:10:00 AM

 Lab ID:
 2309918-008
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	270	9.8	mg/Kg	1	9/20/2023 5:55:39 PM
Motor Oil Range Organics (MRO)	470	49	mg/Kg	1	9/20/2023 5:55:39 PM
Surr: DNOP	103	69-147	%Rec	1	9/20/2023 5:55:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/22/2023 9:52:00 PM
Surr: BFB	96.9	15-244	%Rec	1	9/22/2023 9:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/22/2023 9:52:00 PM
Toluene	ND	0.049	mg/Kg	1	9/22/2023 9:52:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/22/2023 9:52:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/22/2023 9:52:00 PM
Surr: 4-Bromofluorobenzene	88.2	39.1-146	%Rec	1	9/22/2023 9:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	3100	150	mg/Kg	50	9/22/2023 11:24:30 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 11:20:00 AM

 Lab ID:
 2309918-009
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/20/2023 6:36:59 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/20/2023 6:36:59 PM
Surr: DNOP	102	69-147	%Rec	1	9/20/2023 6:36:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/22/2023 10:14:00 PM
Surr: BFB	96.5	15-244	%Rec	1	9/22/2023 10:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/22/2023 10:14:00 PM
Toluene	ND	0.048	mg/Kg	1	9/22/2023 10:14:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/22/2023 10:14:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/22/2023 10:14:00 PM
Surr: 4-Bromofluorobenzene	86.5	39.1-146	%Rec	1	9/22/2023 10:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	9/21/2023 11:21:55 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2309918

Date Reported: 9/26/2023

Analyst: RBC

9/22/2023 2:02:25 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 2.0

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 11:30:00 AM

 Lab ID:
 2309918-010
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/20/2023 6:47:55 PM Motor Oil Range Organics (MRO) 1 ND 49 mg/Kg 9/20/2023 6:47:55 PM Surr: DNOP 1 9/20/2023 6:47:55 PM 106 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 4.9 9/22/2023 10:36:00 PM mg/Kg 1 Surr: BFB 9/22/2023 10:36:00 PM 98.5 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.025 mg/Kg 1 9/22/2023 10:36:00 PM Toluene ND 0.049 mg/Kg 1 9/22/2023 10:36:00 PM Ethylbenzene 9/22/2023 10:36:00 PM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.098 mg/Kg 1 9/22/2023 10:36:00 PM Surr: 4-Bromofluorobenzene %Rec 86.8 39.1-146 1 9/22/2023 10:36:00 PM

160

60

mg/Kg

20

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 4.0

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 11:40:00 AM

 Lab ID:
 2309918-011
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/20/2023 6:58:50 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/20/2023 6:58:50 PM
Surr: DNOP	105	69-147	%Rec	1	9/20/2023 6:58:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/22/2023 10:58:00 PM
Surr: BFB	91.4	15-244	%Rec	1	9/22/2023 10:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/22/2023 10:58:00 PM
Toluene	ND	0.049	mg/Kg	1	9/22/2023 10:58:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/22/2023 10:58:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/22/2023 10:58:00 PM
Surr: 4-Bromofluorobenzene	87.1	39.1-146	%Rec	1	9/22/2023 10:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	360	60	mg/Kg	20	9/22/2023 2:14:46 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 0.0

Project: Rattlesnake Federal Unit 001 Collection Date: 9/14/2023 11:50:00 AM Lab ID: 2309918-012 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/21/2023 9:40:48 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/21/2023 9:40:48 PM
Surr: DNOP	109	69-147	%Rec	1	9/21/2023 9:40:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/22/2023 2:30:26 PM
Surr: BFB	94.9	15-244	%Rec	1	9/22/2023 2:30:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	9/22/2023 2:30:26 PM
Toluene	ND	0.046	mg/Kg	1	9/22/2023 2:30:26 PM
Ethylbenzene	ND	0.046	mg/Kg	1	9/22/2023 2:30:26 PM
Xylenes, Total	ND	0.093	mg/Kg	1	9/22/2023 2:30:26 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	9/22/2023 2:30:26 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	4600	150	mg/Kg	50	9/22/2023 11:36:51 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/14/2023 12:00:00 PM

 Lab ID:
 2309918-013
 Matrix: SOIL
 Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	33	9.9	mg/Kg	1	9/21/2023 9:51:54 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/21/2023 9:51:54 PM
Surr: DNOP	123	69-147	%Rec	1	9/21/2023 9:51:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/22/2023 2:53:50 PM
Surr: BFB	94.4	15-244	%Rec	1	9/22/2023 2:53:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/22/2023 2:53:50 PM
Toluene	ND	0.047	mg/Kg	1	9/22/2023 2:53:50 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/22/2023 2:53:50 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/22/2023 2:53:50 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	9/22/2023 2:53:50 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	620	60	mg/Kg	20	9/22/2023 2:39:27 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 4.0'

Project: Rattlesnake Federal Unit 001 **Collection Date:** 9/14/2023 12:10:00 PM Lab ID: 2309918-014 Matrix: SOIL Received Date: 9/16/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/21/2023 10:13:55 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/21/2023 10:13:55 PM
Surr: DNOP	104	69-147	%Rec	1	9/21/2023 10:13:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/22/2023 3:17:17 PM
Surr: BFB	95.4	15-244	%Rec	1	9/22/2023 3:17:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/22/2023 3:17:17 PM
Toluene	ND	0.048	mg/Kg	1	9/22/2023 3:17:17 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/22/2023 3:17:17 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/22/2023 3:17:17 PM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	9/22/2023 3:17:17 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	550	60	mg/Kg	20	9/22/2023 2:51:48 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309918 26-Sep-23**

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: MB-77667 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77667 RunNo: 99905

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653545 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77667 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77667 RunNo: 99905

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653546 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.5 90 110

Sample ID: MB-77681 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **77681** RunNo: **99905**

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653577 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77681 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77681 RunNo: 99905

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653578 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.8 90 110

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309918 26-Sep-23**

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-77617	SampT	SampType: LCS TestCode: EPA Method							d 8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch	ID: 776	D: 77617 RunNo: 99836										
Prep Date: 9/19/2023	Analysis D	ate: 9/2	20/2023	9	SeqNo: 36	649951	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	50	10	50.00	0	99.4	61.9	130						
Surr: DNOP	5.3		5.000		107	69	147						

Sample ID: MB-77617	SampT	campType: MBLK TestCode: EPA Method 8						sel Range	Organics		
Client ID: PBS	Batch	ID: 776	617	F	RunNo: 99	9836					
Prep Date: 9/19/2023	Analysis D	ate: 9/2	20/2023	5	SeqNo: 36	649954	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		103	69	147				

Sample ID: LCS-77648	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77648			RunNo: 99892							
Prep Date: 9/20/2023	Analysis D	ate: 9/2	21/2023	5	SeqNo: 36	653953	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	61.9	130				
Surr: DNOP	4.6		5.000		92.7	69	147				

Sample ID: MB-77648	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 77648			RunNo: 99892						
Prep Date: 9/20/2023	Analysis Date: 9/21/2023		SeqNo: 3653955		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

Motor Oil Range Organics (MRO)	ND	50			
Surr: DNOP	9.4	10.00	94.1	69	147

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2309918**

26-Sep-23

Client: Devon Energy

Sample ID: mb-77588

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-77588	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batch	n ID: 775	588	F	RunNo: 99	9907				
Prep Date: 9/18/2023	Analysis D	ate: 9/2	22/2023	9	SeqNo: 36	654552	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	70	130			
Surr: BFB	2200		1000		216	15	244			

Client ID: PBS	Batch	1D: 77	588	F	RunNo: 99	9907				
Prep Date: 9/18/2023	Analysis D	ate: 9/ 2	22/2023	5	SeqNo: 36	654553	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: Ics-77607	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Bat	ch ID: 77	607	F	RunNo: 99	9922				
Prep Date: 9/19/2023	3 Analysis	Date: 9/	22/2023	5	SeqNo: 36	655350	Units: mg/K	ζg		
Analyte	Result	PQL	SDK volue	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arialyte	Resuit	FUL	SFK value	SEK KEI Vai	/orlec	LOWLIIIII	підпіліп	/0INFD	KEDLIIIII	Quai
Gasoline Range Organics (G		5.0	25.00	0	91.8	70	130	/0KFD	KFDLIIIII	Quai

Sample ID: mb-77607	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	:	
Client ID: PBS	Batch	n ID: 776	607	F	RunNo: 99	9922				
Prep Date: 9/19/2023	Analysis D	ate: 9/ 2	22/2023	5	SeqNo: 36	655354	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0					_		_	
Surr: BFB	920		1000		92.4	15	244			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309918 26-Sep-23**

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-77588	Samp ⁻	Гуре: LC :	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 775	588	F	RunNo: 9	9907				
Prep Date: 9/18/2023	Analysis [Date: 9/2	22/2023		SeqNo: 30	654566	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.4	70	130			
Toluene	0.83	0.050	1.000	0	83.1	70	130			
Ethylbenzene	0.85	0.050	1.000	0	85.2	70	130			
Xylenes, Total	2.6	0.10	3.000	0	85.1	70	130			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	39.1	146			

Sample ID: mb-77588	SampT	ype: MB	SLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 775	888	F	RunNo: 99	9907				
Prep Date: 9/18/2023	Analysis D	Date: 9/2	22/2023	8	SeqNo: 36	654567	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	39.1	146			

Sample ID: LCS-77607	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 776	607	F	RunNo: 99	9922				
Prep Date: 9/19/2023	Analysis [Date: 9/2	22/2023	5	SeqNo: 36	555469	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	70	130			
Toluene	0.96	0.050	1.000	0	95.8	70	130			
Ethylbenzene	0.96	0.050	1.000	0	96.4	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.0	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: mb-77607	Samp1	Гуре: МЕ	BLK	TestCode: EPA Method				les		
Client ID: PBS	Batcl	h ID: 776	607	F	RunNo: 99	9922				
Prep Date: 9/19/2023	Analysis [Date: 9/2	22/2023	5	SeqNo: 30	655476	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309918**

26-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: 2309918-012ams	Samp	Гуре: МЅ	3	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BH23-14 0.0	Batc	h ID: 776	607	F	RunNo: 99	9922				
Prep Date: 9/19/2023	Analysis [Date: 9/ 2	23/2023	5	SeqNo: 36	655523	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.023	0.9259	0	104	70	130			
Toluene	0.99	0.046	0.9259	0	107	70	130			
Ethylbenzene	0.99	0.046	0.9259	0	106	70	130			
Xylenes, Total	3.0	0.093	2.778	0	107	70	130			
Surr: 4-Bromofluorobenzene	0.97		0.9259		105	39.1	146			

Sample ID: 2309918-012ams	d Samp	Туре: М	SD	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID: BH23-14 0.0	Bato	h ID: 770	607	F	RunNo: 9	9922				
Prep Date: 9/19/2023	Analysis	Date: 9/ 3	23/2023	Ş	SeqNo: 30	655524	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9234	0	104	70	130	0.738	20	
Toluene	0.96	0.046	0.9234	0	104	70	130	3.01	20	
Ethylbenzene	0.97	0.046	0.9234	0	105	70	130	1.31	20	
Xylenes, Total	2.9	0.092	2.770	0	106	70	130	1.61	20	
Surr: 4-Bromofluorobenzene	0.97		0.9234		105	39.1	146	0	0	

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Devon Energy	Work Order Num	ber: 2309918		RcptNo:	1
Received By:	Juan Rojas	9/16/2023 7:30:00	АМ	Guaran G		
Completed By:	Juan Rojas	9/16/2023 8:38:29	AM	Gensaly		
Reviewed By:	ng	9/18/23				
Chain of Cus	stody			_		
1. Is Chain of C	ustody complete?		Yes	No 🗹	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
Log In						
(npt made to cool the sa	mples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all sam	ples received at a temp	erature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicate	d test(s)?	Yes 🗹	No 🗌		
7. Are samples ((except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
8. Was preserva	ative added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspa	ice <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sar	mple containers receive	ed broken?	Yes	No 🗹	# of preserved	
44 -			· .	No 🗔	bottles checked for pH:	
	ork match bottle labels? ancies on chain of custo		Yes 🗸	No 🗀		>12 unless noted)
	correctly identified on C		Yes 🗹	No 🗌	Adjusted?	
	at analyses were reques		Yes 🗹	No 🗌		1.01.16
	ing times able to be me		Yes 🗸	No 🗆	Checked by:	M9/16/23
	ling (if applicable)					
	otified of all discrepance		Yes 🗌	No 🗌	NA 🗹	_
Person	Notified:	Date				
By Wh	om:	Via:	eMail	Phone Fax	In Person	
Regard	ding:			-		
Client I	Instructions:					
16. Additional re	emarks:					
Client	missing mailing address	s,phone numnber and email a	address on COC.	JR 9/16/23		
17. Cooler Info						
Cooler No			Seal Date	Signed By		
1	0 Good	No Yogi				

Received by OCD: 3/13/2025	5 1:21:57 PM		Page 149 of 3.
NVIR SIS LA ironmental ironmental vuquerque,	TEM 8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's PPHs by 8310 or 8270SIMS RCRA 8 Metals CI)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)		1140 BH22-13 1,0
Turn-Around Time: Standard Rush 50am Project Name: Ruthlesnahe Foleral Unit #001 Project #: 23 E-04815	Project Manager: Kent Stallings Sampler:	2007 2007 2007 2007 -007 -009 -009	Received by: Via: Date Time CUMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMA
of-Custody Record	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other	So, / BH23-05 BH23-10 BH23-11 BH23-11 BH23-12 BH23-12 BH23-13 BH23-13	
Chain-	AVOC Package: ACCreditation: NELAC DEDD (Type)	0501 0711 0601 0701 0701 0701 0701 0701 07	Date: Time: A 1870 Date: Time: A 1873 A 1970

Direct Bill

Dicample Maring Address:

□ Other

□ NELAC

ccreditation:

☐ EDD (Type)

A/QC Package:

Standard Standard

mail or Fax#:

*hone #:

Time Matrix

Date

1,00 | 1200 | 50-4/-

1-14-23 1220 Soil

1)even

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Commen 9/5/13/19m

Relinquished by:

Time:

Relinquished by:

Time:

Date:



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

September 26, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2309971

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 11 sample(s) on 9/19/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-15 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/15/2023 9:00:00 AM

 Lab ID:
 2309971-001
 Matrix: SOIL
 Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/21/2023 10:24:57 PM Motor Oil Range Organics (MRO) 1 ND 49 mg/Kg 9/21/2023 10:24:57 PM Surr: DNOP 1 9/21/2023 10:24:57 PM 94.6 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 4.9 9/22/2023 6:48:01 PM mg/Kg 1 Surr: BFB 9/22/2023 6:48:01 PM 93.9 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.025 mg/Kg 1 9/22/2023 6:48:01 PM Toluene ND 0.049 mg/Kg 1 9/22/2023 6:48:01 PM Ethylbenzene ND mg/Kg 9/22/2023 6:48:01 PM 0.049 1 Xylenes, Total ND 0.098 mg/Kg 1 9/22/2023 6:48:01 PM Surr: 4-Bromofluorobenzene %Rec 102 39.1-146 1 9/22/2023 6:48:01 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride ND 60 9/22/2023 3:04:08 AM mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2309971-002

Lab ID:

Analytical Report Lab Order 2309971

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-15 2.0'

Matrix: SOIL

Project: Rattlesnake Federal Unit 001 Collection Date: 9/15/2023 9:10:00 AM Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 370 89 mg/Kg 10 9/21/2023 10:35:54 PM Motor Oil Range Organics (MRO) 510 450 10 mg/Kg 9/21/2023 10:35:54 PM Surr: DNOP 0 %Rec 10 9/21/2023 10:35:54 PM 69-147 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 4.8 9/22/2023 7:11:30 PM mg/Kg 1 Surr: BFB 99.8 15-244 %Rec 1 9/22/2023 7:11:30 PM **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.024 mg/Kg 1 9/22/2023 7:11:30 PM Toluene ND 0.048 mg/Kg 1 9/22/2023 7:11:30 PM Ethylbenzene ND 9/22/2023 7:11:30 PM 0.048 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 9/22/2023 7:11:30 PM Surr: 4-Bromofluorobenzene %Rec 102 39.1-146 1 9/22/2023 7:11:30 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT 9/22/2023 12:13:51 PM Chloride 2100 150 mg/Kg 50

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-16 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/15/2023 9:20:00 AM

 Lab ID:
 2309971-003
 Matrix: SOIL
 Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 9/21/2023 10:46:50 PM Motor Oil Range Organics (MRO) 1 ND 45 mg/Kg 9/21/2023 10:46:50 PM Surr: DNOP %Rec 1 9/21/2023 10:46:50 PM 105 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/22/2023 7:34:48 PM 5.0 mg/Kg 1 Surr: BFB 93.4 15-244 %Rec 1 9/22/2023 7:34:48 PM **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.025 mg/Kg 1 9/22/2023 7:34:48 PM Toluene ND 0.050 mg/Kg 1 9/22/2023 7:34:48 PM Ethylbenzene 0.050 mg/Kg 9/22/2023 7:34:48 PM ND 1 Xylenes, Total ND 0.10 mg/Kg 1 9/22/2023 7:34:48 PM Surr: 4-Bromofluorobenzene %Rec 103 39.1-146 1 9/22/2023 7:34:48 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride ND 60 9/22/2023 3:28:49 AM mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2309971-004

Lab ID:

Analytical Report Lab Order 2309971

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-16 2.0'

Matrix: SOIL

Project: Rattlesnake Federal Unit 001 Collection Date: 9/15/2023 9:30:00 AM Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 8.7 mg/Kg 1 9/21/2023 10:57:51 PM Motor Oil Range Organics (MRO) 1 ND 44 mg/Kg 9/21/2023 10:57:51 PM Surr: DNOP 99.7 %Rec 1 9/21/2023 10:57:51 PM 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/22/2023 7:58:06 PM 4.8 mg/Kg 1 Surr: BFB 9/22/2023 7:58:06 PM 94.2 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.024 mg/Kg 1 9/22/2023 7:58:06 PM Toluene ND 0.048 mg/Kg 1 9/22/2023 7:58:06 PM Ethylbenzene ND mg/Kg 9/22/2023 7:58:06 PM 0.048 1 Xylenes, Total ND 0.097 mg/Kg 1 9/22/2023 7:58:06 PM Surr: 4-Bromofluorobenzene %Rec 103 39.1-146 1 9/22/2023 7:58:06 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride 810 60 9/22/2023 4:05:51 AM mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2309971-005

EPA METHOD 8021B: VOLATILES

Lab ID:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report Lab Order 2309971

Received Date: 9/19/2023 7:35:00 AM

Date Reported: 9/26/2023

Analyst: **JJP**

9/22/2023 8:21:27 PM

9/22/2023 8:21:27 PM

9/22/2023 8:21:27 PM

9/22/2023 8:21:27 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-16 3.0'

Matrix: SOIL

Project: Rattlesnake Federal Unit 001 **Collection Date:** 9/15/2023 9:40:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 9/21/2023 11:08:49 PM Motor Oil Range Organics (MRO) 1 ND 48 mg/Kg 9/21/2023 11:08:49 PM Surr: DNOP 97.8 1 9/21/2023 11:08:49 PM 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/22/2023 8:21:27 PM 4.8 mg/Kg 1 Surr: BFB 96.7 15-244 %Rec 1 9/22/2023 8:21:27 PM

 Surr: 4-Bromofluorobenzene
 105
 39.1-146
 %Rec
 1
 9/22/2023 8:21:27 PM

 EPA METHOD 300.0: ANIONS
 Analyst: RBC

 Chloride
 1900
 60
 mg/Kg
 20
 9/22/2023 4:18:12 AM

ND

ND

ND

ND

0.024

0.048

0.048

0.096

mg/Kg

mg/Kg

mg/Kg

mg/Kg

1

1

1

1

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-17 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/15/2023 9:50:00 AM

 Lab ID:
 2309971-006
 Matrix: SOIL
 Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9/21/2023 11:19:50 PM 8.8 mg/Kg 1 Motor Oil Range Organics (MRO) 1 ND 44 mg/Kg 9/21/2023 11:19:50 PM Surr: DNOP %Rec 1 9/21/2023 11:19:50 PM 100 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/22/2023 8:44:59 PM 5.0 mg/Kg 1 Surr: BFB 94.6 15-244 %Rec 1 9/22/2023 8:44:59 PM **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.025 mg/Kg 1 9/22/2023 8:44:59 PM Toluene ND 0.050 mg/Kg 1 9/22/2023 8:44:59 PM Ethylbenzene 0.050 mg/Kg 9/22/2023 8:44:59 PM ND 1 Xylenes, Total ND 0.10 mg/Kg 1 9/22/2023 8:44:59 PM Surr: 4-Bromofluorobenzene %Rec 103 39.1-146 1 9/22/2023 8:44:59 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT 9/22/2023 12:26:11 PM Chloride 2600 150 mg/Kg 50

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-17 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/15/2023 10:00:00 AM Lab ID: 2309971-007 Matrix: SOIL Received Date: 9/19/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG.	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	10	8.8	mg/Kg	1	9/21/2023 11:30:53 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/21/2023 11:30:53 PM
Surr: DNOP	100	69-147	%Rec	1	9/21/2023 11:30:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/22/2023 9:31:56 PM
Surr: BFB	93.8	15-244	%Rec	1	9/22/2023 9:31:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/22/2023 9:31:56 PM
Toluene	ND	0.048	mg/Kg	1	9/22/2023 9:31:56 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/22/2023 9:31:56 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/22/2023 9:31:56 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	9/22/2023 9:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	2000	60	mg/Kg	20	9/22/2023 4:42:53 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-17 4.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/15/2023 10:10:00 AM Lab ID: 2309971-008 Matrix: SOIL Received Date: 9/19/2023 7:35:00 AM

Result **RL Qual Units** DF **Analyses Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 9/21/2023 11:41:53 PM Motor Oil Range Organics (MRO) 1 ND 48 mg/Kg 9/21/2023 11:41:53 PM Surr: DNOP 96.1 1 9/21/2023 11:41:53 PM 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **JJP** Gasoline Range Organics (GRO) ND 9/22/2023 9:55:15 PM 4.6 mg/Kg 1 Surr: BFB 93.9 15-244 %Rec 1 9/22/2023 9:55:15 PM **EPA METHOD 8021B: VOLATILES** Analyst: **JJP** Benzene ND 0.023 mg/Kg 1 9/22/2023 9:55:15 PM Toluene ND 0.046 mg/Kg 1 9/22/2023 9:55:15 PM Ethylbenzene mg/Kg 9/22/2023 9:55:15 PM ND 0.046 1 Xylenes, Total ND 0.093 mg/Kg 1 9/22/2023 9:55:15 PM Surr: 4-Bromofluorobenzene %Rec 102 39.1-146 1 9/22/2023 9:55:15 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT 9/22/2023 12:38:33 PM Chloride 2000 150 mg/Kg 50

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-18 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/15/2023 10:20:00 AM

 Lab ID:
 2309971-009
 Matrix: SOIL
 Received Date: 9/19/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	9/21/2023 11:52:57 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/21/2023 11:52:57 PM
Surr: DNOP	100	69-147	%Rec	1	9/21/2023 11:52:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/22/2023 10:18:31 PM
Surr: BFB	94.8	15-244	%Rec	1	9/22/2023 10:18:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/22/2023 10:18:31 PM
Toluene	ND	0.050	mg/Kg	1	9/22/2023 10:18:31 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/22/2023 10:18:31 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/22/2023 10:18:31 PM
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	9/22/2023 10:18:31 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	680	60	mg/Kg	20	9/22/2023 5:07:34 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-18 2.0'

Project: Rattlesnake Federal Unit 001 Collection Date: 9/15/2023 10:30:00 AM Lab ID: 2309971-010 Matrix: SOIL Received Date: 9/19/2023 7:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/22/2023 12:04:05 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/22/2023 12:04:05 AM
Surr: DNOP	95.8	69-147	%Rec	1	9/22/2023 12:04:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/22/2023 11:05:10 PM
Surr: BFB	95.1	15-244	%Rec	1	9/22/2023 11:05:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/22/2023 11:05:10 PM
Toluene	ND	0.049	mg/Kg	1	9/22/2023 11:05:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/22/2023 11:05:10 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/22/2023 11:05:10 PM
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	9/22/2023 11:05:10 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	780	60	mg/Kg	20	9/22/2023 5:19:55 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Date Reported: 9/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-18 4.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 9/15/2023 10:40:00 AM

 Lab ID:
 2309971-011
 Matrix: SOIL
 Received Date: 9/19/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2023 12:15:09 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2023 12:15:09 AM
Surr: DNOP	98.9	69-147	%Rec	1	9/22/2023 12:15:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2023 1:02:30 AM
Surr: BFB	93.6	15-244	%Rec	1	9/23/2023 1:02:30 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/23/2023 1:02:30 AM
Toluene	ND	0.048	mg/Kg	1	9/23/2023 1:02:30 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2023 1:02:30 AM
Xylenes, Total	ND	0.095	mg/Kg	1	9/23/2023 1:02:30 AM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	9/23/2023 1:02:30 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	2000	150	mg/Kg	50	9/22/2023 12:50:54 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309971 26-Sep-23**

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: MB-77681 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77681 RunNo: 99905

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653577 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77681 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77681 RunNo: 99905

Prep Date: 9/21/2023 Analysis Date: 9/21/2023 SeqNo: 3653578 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.8 90 110

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309971 26-Sep-23**

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-77648 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 77648 RunNo: 99892

Prep Date: 9/20/2023 Analysis Date: 9/21/2023 SeqNo: 3653953 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 46 50.00 92.6 61.9 130

 Surr: DNOP
 4.6
 5.000
 92.7
 69
 147

Sample ID: MB-77648 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **77648** RunNo: **99892**

Prep Date: 9/20/2023 Analysis Date: 9/21/2023 SeqNo: 3653955 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.4 10.00 94.1 69 147

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309971 26-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-77607 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 77607 RunNo: 99922

Analysis Date: 9/22/2023 SegNo: 3655350 Prep Date: 9/19/2023 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 Gasoline Range Organics (GRO) 23 5.0 25.00 91.8 70 130

Surr: BFB 2000 1000 203 15 244

Sample ID: Ics-77620 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 77620 RunNo: 99922

Prep Date: 9/19/2023 Analysis Date: 9/22/2023 SeqNo: 3655351 Units: mg/Kg

PQL Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25.00 0 91.7 70 130

Surr: BFB 2000 1000 200 15 244

Sample ID: MB-77620 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 77620 RunNo: 99922

Prep Date: 9/19/2023 Analysis Date: 9/22/2023 SeqNo: 3655353 Units: mg/Kg

SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1000 95.6 15 244

Sample ID: mb-77607 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 77607 Client ID: **PBS** RunNo: 99922

Analysis Date: 9/22/2023 Prep Date: 9/19/2023 SeqNo: 3655354 Units: mq/Kq

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

ND Gasoline Range Organics (GRO) 5.0

Surr: BFB 920 1000 92.4 15 244

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Ouanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309971**

26-Sep-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-77607	Samp ⁻	SampType: LCS TestCode: EPA Method 8			8021B: Volati	iles				
Client ID: LCSS	Batc	h ID: 776	607	RunNo: 99922						
Prep Date: 9/19/2023	Analysis [Date: 9/ 2	22/2023	Ş	SeqNo: 30	655469	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	70	130			
Toluene	0.96	0.050	1.000	0	95.8	70	130			
Ethylbenzene	0.96	0.050	1.000	0	96.4	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.0	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: LCS-77620	Samp1	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: 776	520	RunNo: 99922						
Prep Date: 9/19/2023	Analysis [Date: 9/2	22/2023	SeqNo: 3655471			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	70	130			
Toluene	1.0	0.050	1.000	0	99.8	70	130			
Ethylbenzene	1.0	0.050	1.000	0	99.8	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			

Sample ID: MB-77620	SampT	уре: МЕ	pe: MBLK TestCode: EPA Method			8021B: Volati	3021B: Volatiles			
Client ID: PBS	Batch	n ID: 776	520	RunNo: 99922						
Prep Date: 9/19/2023	Analysis D	Date: 9/2	22/2023	SeqNo: 3655474			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			

Sample ID: mb-77607	SampT	уре: МЕ	BLK	TestCode: EPA Method			8021B: Volatiles				
Client ID: PBS	Batch	n ID: 776	607	RunNo: 99922							
Prep Date: 9/19/2023	Analysis D	Date: 9/2	22/2023	9	SeqNo: 30	655476	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	39.1	146				

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy	Work Order Number:	2309	971		RcptN	o: 1
Received By: Juan Rojas 9	0/19/2023 7:35:00 AM			(Jansa 9)		
Completed By: Tracy Casarrubias 9	9/19/2023 8:02:05 AM					
Reviewed By: # 9-19-23						
None and a second secon						
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No 🗹	Not Present	
			ior	110		
2. How was the sample delivered?		Cour	<u>iei</u>			
<u>Log In</u>					_	
3. Was an attempt made to cool the samples?		Yes	V	No 🗌	NA 🗌	
				N. 🗀		
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes	V	No 🗌	NA □	
5. Sample(s) in proper container(s)?		Yes	✓	No 🗌		
$\ensuremath{6}.\ \mbox{Sufficient sample volume for indicated test(s)?}$		Yes	V	No 🗌		
$7_{\scriptscriptstyle \parallel}$ Are samples (except VOA and ONG) properly p	preserved?	Yes	V	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes		No 🗹	= -	
					# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes	✓	No 🗌	for pH:	> 40l
(Note discrepancies on chain of custody)	-1-1-0	V	V	No 🗌	(<2 Adjusted?	or >12 unless noted)
12. Are matrices correctly identified on Chain of Cu 13. Is it clear what analyses were requested?		Yes Yes		No 🗆		
14. Were all holding times able to be met?		Yes		No 🗆	Checked by:	on alialo
(If no, notify customer for authorization.)						7 11 10
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	s order?	Yes		No 🗌	NA 🔽	
Person Notified:	Date:					
By Whom:	Via:	□ eMa	ail 🗍	Phone Fax	In Person	
Regarding:		narrati (s	description 20 de		and described the second of	
Client Instructions: Mailing address, ph	one number and Email	Fax a	re miss	sing on COC- T	MC 9/19/23	
16. Additional remarks:						
Client did not relinquish chain of custody						
17. Cooler Information						
	I Intact Seal No S	eal D	ate	Signed By		

Received by OCD: 3/13/2022	1:21:57 PM	Page 168 of 35
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 8270 (Semi-VOA) Road (VOA) Road (VOA) Road (Semi-VOA) Road (00.0
1901 F	1PH 015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's	ir, Any
4	RTEX MTBE / TMB's (8021)	Remarks:
Turn-Around Time: Z Standard Z Rush 5 00.04 Project Name: Rettlesquee Federal Mrt #001 Project #:	Project Manager: Rent-St-llings Sampler: Mt	Received by: Via: Received by: Via: Received by: Via: Received by: Via:
Chain-of-Custody Record Li Deven Direct Bill	□ Level 4 (Full Validation) □ Az Compliance □ Other Matrix Sample Name Su (BH22~15 0.0 BH23~16 0.0 BH23~16 0.0 BH23~16 0.0	8H23-17 0.0 BH23-17 2.0 BH23-17 4.0 BH23-18 0.0 BH23-18 1.0 BH23-18 4.0 hed by:
October 18		RAFE BATE BATE BATE BATE BATE BATE BATE BAT
Chain-o Client: Chain-o Released to Imaging: 5/9/50	Constitution: Constitution: Constitution	29
Released to Imaging: 5/9/20	Date Date Date Star Star Star Star Star Star Star Star	Date: G



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

October 24, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2310830

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 10/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-21 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:00:00 AM

 Lab ID:
 2310830-001
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/19/2023 12:51:13 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/19/2023 12:51:13 PM
Surr: DNOP	98.7	69-147	%Rec	1	10/19/2023 12:51:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 10:00:00 PM
Surr: BFB	99.0	15-244	%Rec	1	10/19/2023 10:00:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/19/2023 10:00:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 10:00:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 10:00:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2023 10:00:00 PM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	10/19/2023 10:00:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 5:34:45 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-21 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:10:00 AM

 Lab ID:
 2310830-002
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/19/2023 1:01:50 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2023 1:01:50 PM
Surr: DNOP	99.0	69-147	%Rec	1	10/19/2023 1:01:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2023 10:22:00 PM
Surr: BFB	99.4	15-244	%Rec	1	10/19/2023 10:22:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/19/2023 10:22:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2023 10:22:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2023 10:22:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2023 10:22:00 PM
Surr: 4-Bromofluorobenzene	88.7	39.1-146	%Rec	1	10/19/2023 10:22:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	120	60	mg/Kg	20	10/20/2023 5:47:09 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-22 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:20:00 AM

 Lab ID:
 2310830-003
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: DGH			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/19/2023 1:12:26 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2023 1:12:26 PM
Surr: DNOP	96.1	69-147	%Rec	1	10/19/2023 1:12:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2023 10:43:00 PM
Surr: BFB	101	15-244	%Rec	1	10/19/2023 10:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	10/19/2023 10:43:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2023 10:43:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2023 10:43:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2023 10:43:00 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146	%Rec	1	10/19/2023 10:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	560	60	mg/Kg	20	10/20/2023 5:59:34 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-22 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:30:00 AM

 Lab ID:
 2310830-004
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/19/2023 1:23:06 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/19/2023 1:23:06 PM
Surr: DNOP	103	69-147	%Rec	1	10/19/2023 1:23:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 11:05:00 PM
Surr: BFB	97.7	15-244	%Rec	1	10/19/2023 11:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/19/2023 11:05:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 11:05:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 11:05:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2023 11:05:00 PM
Surr: 4-Bromofluorobenzene	88.2	39.1-146	%Rec	1	10/19/2023 11:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	510	60	mg/Kg	20	10/20/2023 6:11:59 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-23 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:40:00 AM

 Lab ID:
 2310830-005
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/19/2023 1:33:45 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2023 1:33:45 PM
Surr: DNOP	102	69-147	%Rec	1	10/19/2023 1:33:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2023 11:48:00 PM
Surr: BFB	98.7	15-244	%Rec	1	10/19/2023 11:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	10/19/2023 11:48:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2023 11:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2023 11:48:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2023 11:48:00 PM
Surr: 4-Bromofluorobenzene	87.1	39.1-146	%Rec	1	10/19/2023 11:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 6:24:23 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-23 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 9:50:00 AM

 Lab ID:
 2310830-006
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	14	9.3	mg/Kg	1	10/19/2023 1:44:24 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2023 1:44:24 PM
Surr: DNOP	98.8	69-147	%Rec	1	10/19/2023 1:44:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2023 12:10:00 AM
Surr: BFB	101	15-244	%Rec	1	10/20/2023 12:10:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/20/2023 12:10:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2023 12:10:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2023 12:10:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2023 12:10:00 AM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	10/20/2023 12:10:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	240	60	mg/Kg	20	10/20/2023 7:01:37 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-24 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:00:00 AM

 Lab ID:
 2310830-007
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/20/2023 11:43:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2023 11:43:37 PM
Surr: DNOP	98.1	69-147	%Rec	1	10/20/2023 11:43:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2023 12:19:52 PM
Surr: BFB	95.6	15-244	%Rec	1	10/19/2023 12:19:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	10/19/2023 12:19:52 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2023 12:19:52 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2023 12:19:52 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2023 12:19:52 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146	%Rec	1	10/19/2023 12:19:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	540	60	mg/Kg	20	10/20/2023 7:14:02 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-24 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:10:00 AM

 Lab ID:
 2310830-008
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	28	9.3	mg/Kg	1	10/21/2023 12:15:58 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/21/2023 12:15:58 AM
Surr: DNOP	70.1	69-147	%Rec	1	10/21/2023 12:15:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 12:43:36 PM
Surr: BFB	89.7	15-244	%Rec	1	10/19/2023 12:43:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 12:43:36 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 12:43:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 12:43:36 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2023 12:43:36 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146	%Rec	1	10/19/2023 12:43:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	180	60	mg/Kg	20	10/20/2023 7:26:27 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:20:00 AM

 Lab ID:
 2310830-009
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/21/2023 12:26:45 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/21/2023 12:26:45 AM
Surr: DNOP	105	69-147	%Rec	1	10/21/2023 12:26:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 1:07:21 PM
Surr: BFB	90.6	15-244	%Rec	1	10/19/2023 1:07:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 1:07:21 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 1:07:21 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 1:07:21 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2023 1:07:21 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146	%Rec	1	10/19/2023 1:07:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 7:38:52 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:30:00 AM

 Lab ID:
 2310830-010
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	20	9.7	mg/Kg	1	10/21/2023 12:37:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/21/2023 12:37:33 AM
Surr: DNOP	76.4	69-147	%Rec	1	10/21/2023 12:37:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2023 1:30:58 PM
Surr: BFB	94.3	15-244	%Rec	1	10/19/2023 1:30:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 1:30:58 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2023 1:30:58 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2023 1:30:58 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2023 1:30:58 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/19/2023 1:30:58 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 7:51:16 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 4.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:40:00 AM

 Lab ID:
 2310830-011
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/21/2023 12:48:22 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/21/2023 12:48:22 AM
Surr: DNOP	89.9	69-147	%Rec	1	10/21/2023 12:48:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 1:54:19 PM
Surr: BFB	94.7	15-244	%Rec	1	10/19/2023 1:54:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 1:54:19 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 1:54:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 1:54:19 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2023 1:54:19 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/19/2023 1:54:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 8:03:41 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 5.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/16/2023 10:50:00 AM

 Lab ID:
 2310830-012
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/21/2023 12:59:11 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/21/2023 12:59:11 AM
Surr: DNOP	87.6	69-147	%Rec	1	10/21/2023 12:59:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 3:28:12 PM
Surr: BFB	93.1	15-244	%Rec	1	10/19/2023 3:28:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 3:28:12 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 3:28:12 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 3:28:12 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2023 3:28:12 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/19/2023 3:28:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 8:40:54 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-19 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/14/2023 9:00:00 AM

 Lab ID:
 2310830-013
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/21/2023 3:42:20 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/21/2023 3:42:20 AM
Surr: DNOP	87.9	69-147	%Rec	1	10/21/2023 3:42:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2023 4:38:14 PM
Surr: BFB	91.1	15-244	%Rec	1	10/19/2023 4:38:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 4:38:14 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2023 4:38:14 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2023 4:38:14 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2023 4:38:14 PM
Surr: 4-Bromofluorobenzene	99.5	39.1-146	%Rec	1	10/19/2023 4:38:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 8:53:18 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-19 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/14/2023 9:10:00 AM

 Lab ID:
 2310830-014
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/21/2023 1:10:01 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/21/2023 1:10:01 AM
Surr: DNOP	85.9	69-147	%Rec	1	10/21/2023 1:10:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2023 5:01:37 PM
Surr: BFB	96.5	15-244	%Rec	1	10/19/2023 5:01:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	10/19/2023 5:01:37 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2023 5:01:37 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2023 5:01:37 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2023 5:01:37 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	10/19/2023 5:01:37 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2023 10:20:10 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-20 0.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/14/2023 9:20:00 AM

 Lab ID:
 2310830-015
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/21/2023 1:20:52 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/21/2023 1:20:52 AM
Surr: DNOP	89.4	69-147	%Rec	1	10/21/2023 1:20:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2023 5:24:54 PM
Surr: BFB	93.2	15-244	%Rec	1	10/19/2023 5:24:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 5:24:54 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2023 5:24:54 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2023 5:24:54 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2023 5:24:54 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	10/19/2023 5:24:54 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	310	60	mg/Kg	20	10/20/2023 10:32:34 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-20 2.0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 10/14/2023 9:30:00 AM

 Lab ID:
 2310830-016
 Matrix: SOIL
 Received Date: 10/18/2023 7:18:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	10/21/2023 1:31:43 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/21/2023 1:31:43 AM
Surr: DNOP	88.9	69-147	%Rec	1	10/21/2023 1:31:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2023 5:48:39 PM
Surr: BFB	90.8	15-244	%Rec	1	10/19/2023 5:48:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	10/19/2023 5:48:39 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2023 5:48:39 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2023 5:48:39 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2023 5:48:39 PM
Surr: 4-Bromofluorobenzene	98.3	39.1-146	%Rec	1	10/19/2023 5:48:39 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	150	60	mg/Kg	20	10/20/2023 10:44:59 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

: 2310830 24-Oct-23

WO#:

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: MB-78269 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 78269 RunNo: 100629

Prep Date: 10/20/2023 Analysis Date: 10/20/2023 SeqNo: 3689507 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-78269 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 78269 RunNo: 100629

Prep Date: 10/20/2023 Analysis Date: 10/20/2023 SeqNo: 3689508 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.0 90 110

Sample ID: MB-78279 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 78279 RunNo: 100629

Prep Date: 10/20/2023 Analysis Date: 10/20/2023 SeqNo: 3689537 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-78279 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 78279 RunNo: 100629

Prep Date: 10/20/2023 Analysis Date: 10/20/2023 SeqNo: 3689538 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.3 90 110

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310830

24-Oct-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-78235 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 78235 RunNo: 100548

Prep Date: 10/18/2023 Analysis Date: 10/19/2023 SeqNo: 3687181 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 50.00 Λ 98.7 61 9 130 Surr: DNOP 5.000 4.2 84.1 147

Sample ID: MB-78235 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: 78235 RunNo: 100548

Prep Date: 10/18/2023 Analysis Date: 10/19/2023 SeqNo: 3687182 Units: mg/Kg

PQL Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.8 10.00 88.1 69 147

Sample ID: LCS-78243 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **LCSS** Batch ID: 78243 RunNo: 100627

Prep Date: 10/19/2023 Analysis Date: 10/20/2023 SeqNo: 3689324 Units: mg/Kg

PQL SPK value Analyte SPK Ref Val %REC %RPD **RPDLimit** Result LowLimit HighLimit Qual Diesel Range Organics (DRO) 48 10 50.00 96.3 61.9 130

TestCode: EPA Method 8015M/D: Diesel Range Organics

Surr: DNOP 4.5 5.000 89.7 69 147

SampType: MBLK Client ID: **PRS** Batch ID: 78243 RunNo: 100627

Prep Date: Analysis Date: 10/20/2023 SeqNo: 3689328 10/19/2023 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 147 9 1 10.00 91.5 69

SampType: MS Sample ID: 2310830-007AMS TestCode: EPA Method 8015M/D: Diesel Range Organics BH23-24 0.0' Batch ID: 78243 RunNo: 100627 Client ID:

Prep Date: 10/19/2023 Analysis Date: 10/20/2023 SeqNo: 3689691 Units: mg/Kg

Result PQL SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual SPK value HighLimit Analyte Diesel Range Organics (DRO) 44 94 46.82 0 93.7 54.2 135 Surr: DNOP 3.6 4.682 77.0 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D

Sample ID: MB-78243

- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

2310830 24-Oct-23

WO#:

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: 2310830-007AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH23-24 0.0' Batch ID: 78243 RunNo: 100627

Prep Date: 10/19/2023 Analysis Date: 10/21/2023 SeqNo: 3689692 Units: mg/Kg

·	•				•		•	•			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	56	9.7	48.50	0	115	54.2	135	24.2	29.2		
Surr: DNOP	4.7		4.850		96.2	69	147	0	0		

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310830 24-***Oct-***23**

Client: Devon Energy

Sample ID: mb-78237

Surr: BFB

Surr: BFB

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-78237	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Ratch ID: 79227	PunNo: 100500

Client ID: LCSS Batch ID: 78237 RunNo: 100590

SampType: MBLK

920

2100

Prep Date: 10/18/2023 Analysis Date: 10/19/2023 SeqNo: 3687197 Units: mg/Kg

1000

987.2

							_	_			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	70	130				
Surr: BFB	1900		1000		192	15	244				

									_			
Client ID:	PBS	Batch	ID: 78 2	237	F	RunNo: 10	00590					
Prep Date:	10/18/2023	Analysis Da	ate: 10	/19/2023	5	SeqNo: 30	687198	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	ND	5.0									

92.5

210

TestCode: EPA Method 8015D: Gasoline Range

15

15

244

244

Sample ID: 2310830-007ams	SampT	уре: М S	;	Tes	tCode: EF					
Client ID: BH23-24 0.0'	Batcl	n ID: 782	237	RunNo: 100590						
Prep Date: 10/18/2023	Analysis D	Date: 10	/19/2023	5	SeqNo: 30	687976	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.68	0	103	70	130		•	

Sample ID: 2310830-007amsd	SampT	ype: MS	D	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH23-24 0.0'	Batch	n ID: 78 2	237	F	RunNo: 10	00590					
Prep Date: 10/18/2023	Analysis D	oate: 10	/19/2023	5	SeqNo: 36	87977	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	4.9	24.56	0	96.2	70	130	7.20	20		
Surr: BFB	2000		982.3		199	15	244	0	0		

Sample ID: Ics-78227	SampT	ype: LC	S	Tes	tCode: EF	EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 782	227	F	RunNo: 10	00580						
Prep Date: 10/18/2023	: 10/18/2023 Analysis Date: 10/19/2023					SeqNo: 3688395 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	70	130					
Surr: BFB	2200		1000		219	15	244					

Sample ID: mb-78227	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 78227	RunNo: 100580
Prep Date: 10/18/2023	Analysis Date: 10/19/2023	SeqNo: 3688396 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310830**

24-Oct-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: mb-78227 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 78227 RunNo: 100580

Prep Date: 10/18/2023 Analysis Date: 10/19/2023 SeqNo: 3688396 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 98.9 15 244

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310830**

24-Oct-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-78237 Client ID: LCSS	SampType: LCS TestCode: EPA Method Batch ID: 78237 RunNo: 100590							les				
Prep Date: 10/18/2023	Analysis [Date: 10	/19/2023	5	SeqNo: 30	687200	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.85	0.025	1.000	0	85.5	70	130					
Toluene	0.88	0.050	1.000	0	87.6	70	130					
Ethylbenzene	0.89	0.050	1.000	0	89.3	70	130					
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130					
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146					

Sample ID: mb-78237	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 782	237	F	RunNo: 10	00590				
Prep Date: 10/18/2023	Analysis D	ate: 10	/19/2023	5	SeqNo: 36	87201	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: 2310830-008ams	SampT	ype: MS	;	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-24 2.0'	Batcl	n ID: 782	237	F	RunNo: 10	00590						
Prep Date: 10/18/2023	Analysis D	Date: 10	/19/2023	5	SeqNo: 30	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.86	0.024	0.9653	0	89.1	70	130					
Toluene	0.89	0.048	0.9653	0	92.4	70	130					
Ethylbenzene	0.91	0.048	0.9653	0	94.5	70	130					
Xylenes, Total	2.7	0.097	2.896	0	94.3	70	130					
Surr: 4-Bromofluorobenzene	0.99		0.9653		103	39.1	146					

Sample ID: 2310830-008amsd	SampT	ampType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-24 2.0'	Batch	n ID: 782	237	F	RunNo: 10	00590				
Prep Date: 10/18/2023	Analysis D	ate: 10	/19/2023	5	SeqNo: 30	687981	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9625	0	86.1	70	130	3.74	20	
Toluene	0.86	0.048	0.9625	0	89.1	70	130	3.93	20	
Ethylbenzene	0.87	0.048	0.9625	0	90.3	70	130	4.78	20	
Xylenes, Total	2.6	0.096	2.887	0	90.3	70	130	4.65	20	
Surr: 4-Bromofluorobenzene	0.98		0.9625		101	39.1	146	0	0	

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310830**

24-Oct-23

Client: Devon Energy

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-78227	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	h ID: 78 2	227	F	RunNo: 10	00580						
Prep Date: 10/18/2023	Analysis [Date: 10	/19/2023	5	SeqNo: 36	688352	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.82	0.025	1.000	0	82.1	70	130					
Toluene	0.85	0.050	1.000	0	84.5	70	130					
Ethylbenzene	0.87	0.050	1.000	0	87.5	70	130					
Xylenes, Total	2.6	0.10	3.000	0	87.0	70	130					
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	39.1	146					

Sample ID: mb-78227	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Batc	h ID: 78 2	227	F	RunNo: 10	00580				
Prep Date: 10/18/2023	Analysis [Date: 10)/19/2023	5	SeqNo: 36	688353	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	39.1	146			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy Work Order Number: 2310830 RcptNo: 1 Received By: Tracy Casarrubias 10/18/2023 7:18:00 AM Completed By: Tracy Casarrubias 10/18/2023 7:52:57 AM 5cm 10/18/23 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗌 No 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🔽 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗍 5. Sample(s) in proper container(s)? No 🗌 Yes 🔽 6. Sufficient sample volume for indicated test(s)? No 7. Are samples (except VOA and ONG) properly preserved? No 8. Was preservative added to bottles? No 🗸 NA I Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA 🔽 No 📙 10. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 11. Does paperwork match bottle labels? No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes No 🗌 13. Is it clear what analyses were requested? $\overline{\mathbf{V}}$ enecked by: 7410/19/27 14. Were all holding times able to be met? No 🗌 Yes 🔽 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗌 NA 🔽 Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: Mailing address, phone number and Email/Fax are missing on COC - TMC 10/18/23 16. Additional remarks: Client did not relinquish chain of custody 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good Yes Morty

Received by	OCD	: 3/	13/2	02 5	1:2	1:57 F	M							1			Ţ	T	T	1	Ţ	Ţ	T	1	Page	194	of 358
HALL ENVIRONMENTAL ANALYSIS LABORATORY	a	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	ysis Requ	(O)	PO4, 8) (() () () () () (308/ses 504.1 504.1 (SS 10 (SS 2) 10 (SS 10 (SS 2)	oide cide 31(G eta NC //	esti Meth by 8 8 M 8 M Br, JOY	8081 P 8081 P PPHs I RCRA (1)F, I 8270 (3 8270 (3													Remarks: (L: Kst.//nysoevertex og	whomso werex co		TOWN VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
Turn-Around Time:	Project Name: F. F. 1/6. L. #100	Callestant I com a / mil 11	Project #: 236-048/5		Project Manager:	Ken KStallings		Sampler: //// Do Ice: Yes Do not	1	Cooler Temp(Induding CF): 3.7-102 1.7 (°C)	- No.	702 1CE	200	003	h00	200	200	400	900	600	010	110	210	Date Time	Received by: Via:Court Date Time	81.4 621 181 101	contracted to other accredited laboratories. This serves as notice of this p
Chain-of-Custody Record	Direct B.//		5/9	/202	Fax#:	QA/QC Package:	Standard Level 4 (Full Valluation)	n:			Date Time Matrix Sample Name	3 0900 So. (RH23-21 0.0	0410	0920 RY23-22 0.0	0930 8423-22 2.0°	OG40 8423-23 0.0	0950 8423-23 2.0		1010 BH23-24 2.0'	1020 RH23-25 0.0°	(030 8423-25 2.0'	N BN23-25	>	Relinquished by:		Want 16 me Commence by.	

Received by OCD: 3/13/2025	1:21:57 PM		Page 195 of 358
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEXM MTBE / TMB's (8021) TPH 3015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)		Time: Relinquished by: Received by: Via: Date Time Received by: Via: Date Time Received by: Via: Contracted by: Via: Contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: Z Standard Rush 5 MM Project Name: Ret In, Fffer Project #: 23E-04815	Project Manager: Colect Manager: Colect Temp(Instituting CF): Colect Temp(Instituting	166 013 014 015 016	Received by: Via: Date Time Received by: Via: Court Date Time Received by: Via: Court Date Time Io/18/23 7:18
Chain-of-Custody Record Client: Client: Client: Chain-of-Custody Record Client: Chain-of-Custody Record Client: Chain-of-Custody Record Client: Chain-of-Custody Record	ckage: ckage: Ind	23 0900 50. (BH23-15 0.0 0 0910 BH23-19 2.0 0920 BH23-20 0.0 0 0930 V BH28-20 2.0	Date: Time: Relinquished by: Date: Time: Relinquished by: MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 08, 2024

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL:
FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2312F03

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 12/29/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 6'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/20/2023 12:00:00 PM

 Lab ID:
 2312F03-001
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/1/2024 9:15:50 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/1/2024 9:15:50 PM
Surr: DNOP	93.9	69-147	%Rec	1	1/1/2024 9:15:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 11:29:32 AM
Surr: BFB	99.8	15-244	%Rec	1	1/2/2024 11:29:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 11:29:32 AM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 11:29:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 11:29:32 AM
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2024 11:29:32 AM
Surr: 4-Bromofluorobenzene	97.5	39.1-146	%Rec	1	1/2/2024 11:29:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1500	60	mg/Kg	20	1/2/2024 9:22:23 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 9

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-12 8'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/20/2023 12:20:00 PM

 Lab ID:
 2312F03-002
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/1/2024 9:26:18 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/1/2024 9:26:18 PM
Surr: DNOP	94.2	69-147	%Rec	1	1/1/2024 9:26:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 11:53:13 AM
Surr: BFB	99.5	15-244	%Rec	1	1/2/2024 11:53:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 11:53:13 AM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 11:53:13 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 11:53:13 AM
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2024 11:53:13 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146	%Rec	1	1/2/2024 11:53:13 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	570	60	mg/Kg	20	1/2/2024 9:34:48 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 9

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 4'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/20/2023 12:45:00 PM

 Lab ID:
 2312F03-003
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/1/2024 9:36:46 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/1/2024 9:36:46 PM
Surr: DNOP	92.2	69-147	%Rec	1	1/1/2024 9:36:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 12:16:51 PM
Surr: BFB	97.6	15-244	%Rec	1	1/2/2024 12:16:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/2/2024 12:16:51 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 12:16:51 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 12:16:51 PM
Xylenes, Total	ND	0.099	mg/Kg	1	1/2/2024 12:16:51 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146	%Rec	1	1/2/2024 12:16:51 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	460	60	mg/Kg	20	1/2/2024 9:47:13 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 9

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 6'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/20/2023 12:55:00 PM

 Lab ID:
 2312F03-004
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/1/2024 9:47:13 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/1/2024 9:47:13 PM
Surr: DNOP	95.5	69-147	%Rec	1	1/1/2024 9:47:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 12:40:46 PM
Surr: BFB	102	15-244	%Rec	1	1/2/2024 12:40:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 12:40:46 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 12:40:46 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 12:40:46 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/2/2024 12:40:46 PM
Surr: 4-Bromofluorobenzene	99.4	39.1-146	%Rec	1	1/2/2024 12:40:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	450	60	mg/Kg	20	1/2/2024 10:24:27 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

e pH Not In Range ting Limit Page 4 of 9

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-15 8'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/20/2023 1:05:00 PM

 Lab ID:
 2312F03-005
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/1/2024 9:57:48 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/1/2024 9:57:48 PM
Surr: DNOP	96.5	69-147	%Rec	1	1/1/2024 9:57:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/2/2024 1:04:40 PM
Surr: BFB	103	15-244	%Rec	1	1/2/2024 1:04:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/2/2024 1:04:40 PM
Toluene	ND	0.050	mg/Kg	1	1/2/2024 1:04:40 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/2/2024 1:04:40 PM
Xylenes, Total	ND	0.10	mg/Kg	1	1/2/2024 1:04:40 PM
Surr: 4-Bromofluorobenzene	98.6	39.1-146	%Rec	1	1/2/2024 1:04:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	470	60	mg/Kg	20	1/2/2024 10:36:52 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312F03** *08-Jan-24*

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: MB-79690 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79690 RunNo: 102194

Prep Date: 1/2/2024 Analysis Date: 1/2/2024 SeqNo: 3772697 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79690 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79690 RunNo: 102194

Prep Date: 1/2/2024 Analysis Date: 1/2/2024 SeqNo: 3772698 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312F03 08-Jan-24

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Qual
Qual
Qual
Qual
Qual
Qual

Sample ID: MB-79675	SampT	ype: MB	SLK	K TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 79 6	575	F	RunNo: 10	02162				
Prep Date: 1/1/2024	Analysis D	ate: 1/ 1	1/2024	5	SeqNo: 37	771008	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312F03** *08-Jan-24*

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-79669 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 79669 RunNo: 102187

Prep Date: 12/29/2023 Analysis Date: 1/2/2024 SeqNo: 3772357 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0 23 5.0 25.00 93.4 70 130

Surr: BFB 2000 1000 202 15 244

Sample ID: mb-79669 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 79669 RunNo: 102187

Prep Date: 12/29/2023 Analysis Date: 1/2/2024 SeqNo: 3772358 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.2 15 244

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312F03 08-Jan-24

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-79669 Client ID: LCSS Prep Date: 12/29/2023		Гуре: LC h ID: 796 Date: 1/ 2		TestCode: EPA Method RunNo: 102187 SeqNo: 3772369			8021B: Volati Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	70	130			
Toluene	0.92	0.050	1.000	0	92.2	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.2	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: mb-79669	SampT	Гуре: МЕ	BLK	K TestCode: EPA Method 8			8021B: Volati	: Volatiles				
Client ID: PBS	Batch	h ID: 79 6	669	RunNo: 102187								
Prep Date: 12/29/2023	Analysis D	Date: 1/2	2/2024	5	SeqNo: 37	772370	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	39.1	146					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resource	ces Work Order Nur	mber: 2312F03		RcptNo:	1
Received By: Tracy Casarre	ubias 12/29/2023 7:15:0	OO AM			
Completed By: Tracy Casarro	ubias 12/29/2023 8:00:4	13 AM			
Reviewed By: \$\int 12-29	-23				
Chain of Custody					
1. Is Chain of Custody complete	?	Yes	No 🗹	Not Present	
2. How was the sample delivered	1?	Courier			
Log In					
3. Was an attempt made to cool	the samples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a	a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
5. Sample(s) in proper container	(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for in	dicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bot	tles?	Yes	No 🗹	NA 🗆	
9. Received at least 1 vial with he	adspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers r	eceived broken?	Yes	No 🗸	# of preserved bottles checked	- Page 1844
 Does paperwork match bottle I (Note discrepancies on chain of 		Yes 🗹	No 🗌	for pH: (<2 or	>12 unless noted)
12. Are matrices correctly identified	d on Chain of Custody?	Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were r	equested?	Yes 🗸	No 🗆		-1-0-1-
 Were all holding times able to (If no, notify customer for author) 		Yes 🗸	No 🗌	Checked by:	14245
Special Handling (if applic	<u>able)</u>				
15. Was client notified of all discre	pancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date	e:]			
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:					
Client Instructions: Mai	ling address,phone number and E	mail/Fax are miss	sing on COC- TM	IC 12/29/23	
16. Additional remarks:					
17. Cooler Information					
	Condition Seal Intact Seal No	Seal Date	Signed By		
1 0.4 Go	od Yes Morty				

Received by OCD: 3/13/2025	1:21:57 PM			Page 207 of 358
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals B260 (VOA) B260 (VOA) Total Coliform (Present/Absent)	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	→ — — — — — — — — — — — — — — — — — — —	Direct Will b. Devan Work: 100 5174623 K. Stallings QVertex.Co
4901 Tel.	TPH:8015D(GRO \ DRO \ MRO)		 	Remarks:
	STEX MTBE / TMB's (8021)	3	->	Ren C
Turn-Around Time: □ Standard to Rush 2 olary Project Name: Robbit # # # # # # # # #		T C	>	Time: Relinquished by: Received by: Via: Date Time Remarks: Direct bill b: Devan W. M. M. W.
Chain-of-Custody Record Client: Vertex/ Devun Suising Address: On A'le	email or Fax#: Ca/QC Package: Calculation: 22:00 Soil 12:30 Soil 12:35	6 HW-15 1	Date: Time: Relinquished by: Relinquished by: Date: Time: Relinquished by: Re	



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 08, 2024

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL:
FAX:

RE: Rattlesnake Federal Unit 001 OrderNo.: 2312F02

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 7 sample(s) on 12/29/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 6'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/21/2023 3:15:00 PM

 Lab ID:
 2312F02-001
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/1/2024 8:01:59 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/1/2024 8:01:59 PM
Surr: DNOP	103	69-147	%Rec	1	1/1/2024 8:01:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 1:28:31 PM
Surr: BFB	101	15-244	%Rec	1	1/2/2024 1:28:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 1:28:31 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 1:28:31 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 1:28:31 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/2/2024 1:28:31 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	1/2/2024 1:28:31 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1800	60	mg/Kg	20	1/2/2024 4:24:33 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-17 8'

Project: Rattlesnake Federal Unit 001 Collection Date: 12/21/2023 3:30:00 PM

Lab ID: 2312F02-002 Matrix: SOIL Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/1/2024 8:12:36 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/1/2024 8:12:36 PM
Surr: DNOP	107	69-147	%Rec	1	1/1/2024 8:12:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 1:52:20 PM
Surr: BFB	100	15-244	%Rec	1	1/2/2024 1:52:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 1:52:20 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 1:52:20 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 1:52:20 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2024 1:52:20 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146	%Rec	1	1/2/2024 1:52:20 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2100	60	mg/Kg	20	1/2/2024 4:36:58 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 6'

Project: Rattlesnake Federal Unit 001 Collection Date: 12/21/2023 2:15:00 PM

Lab ID: 2312F02-003 Matrix: SOIL Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/1/2024 8:23:11 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/1/2024 8:23:11 PM
Surr: DNOP	102	69-147	%Rec	1	1/1/2024 8:23:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 2:16:11 PM
Surr: BFB	99.6	15-244	%Rec	1	1/2/2024 2:16:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 2:16:11 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 2:16:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 2:16:11 PM
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2024 2:16:11 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	1/2/2024 2:16:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	170	60	mg/Kg	20	1/2/2024 4:49:22 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 3 of 11

Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 0'

Project: Rattlesnake Federal Unit 001 Collection Date: 12/21/2023 9:35:00 AM

Lab ID: 2312F02-004 Matrix: SOIL Received Date: 12/29/2023 7:15:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 1/2/2024 10:46:24 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 1/2/2024 10:46:24 AM Surr: DNOP %Rec 1 1/2/2024 10:46:24 AM 110 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 1/2/2024 2:40:02 PM 4.7 mg/Kg 1 Surr: BFB 103 15-244 %Rec 1 1/2/2024 2:40:02 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 1/2/2024 2:40:02 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 1/2/2024 2:40:02 PM Ethylbenzene ND 0.047 mg/Kg 1 1/2/2024 2:40:02 PM Xylenes, Total ND 0.093 mg/Kg 1 1/2/2024 2:40:02 PM Surr: 4-Bromofluorobenzene 99.1 39.1-146 %Rec 1 1/2/2024 2:40:02 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 67 60 20 1/2/2024 8:32:45 PM mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 2'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/21/2023 10:30:00 AM

 Lab ID:
 2312F02-005
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/1/2024 8:44:18 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/1/2024 8:44:18 PM
Surr: DNOP	97.4	69-147	%Rec	1	1/1/2024 8:44:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2024 3:03:53 PM
Surr: BFB	106	15-244	%Rec	1	1/2/2024 3:03:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 3:03:53 PM
Toluene	ND	0.047	mg/Kg	1	1/2/2024 3:03:53 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2024 3:03:53 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 3:03:53 PM
Surr: 4-Bromofluorobenzene	99.5	39.1-146	%Rec	1	1/2/2024 3:03:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	65	60	mg/Kg	20	1/2/2024 8:45:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 0'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/21/2023 12:30:00 PM

 Lab ID:
 2312F02-006
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/1/2024 8:54:49 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/1/2024 8:54:49 PM
Surr: DNOP	97.3	69-147	%Rec	1	1/1/2024 8:54:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 5:03:09 PM
Surr: BFB	101	15-244	%Rec	1	1/2/2024 5:03:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 5:03:09 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 5:03:09 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 5:03:09 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 5:03:09 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146	%Rec	1	1/2/2024 5:03:09 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/2/2024 8:57:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/8/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 2'

 Project:
 Rattlesnake Federal Unit 001
 Collection Date: 12/21/2023 12:40:00 PM

 Lab ID:
 2312F02-007
 Matrix: SOIL
 Received Date: 12/29/2023 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/1/2024 9:05:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/1/2024 9:05:20 PM
Surr: DNOP	95.4	69-147	%Rec	1	1/1/2024 9:05:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 5:26:59 PM
Surr: BFB	97.1	15-244	%Rec	1	1/2/2024 5:26:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/2/2024 5:26:59 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 5:26:59 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 5:26:59 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2024 5:26:59 PM
Surr: 4-Bromofluorobenzene	91.6	39.1-146	%Rec	1	1/2/2024 5:26:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/2/2024 9:09:59 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2312F02 08-Jan-24

Client: Vertex Resources Services, Inc.
Project: Rattlesnake Federal Unit 001

Sample ID: MB-79684 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **79684** RunNo: **102194**

Prep Date: 1/2/2024 Analysis Date: 1/2/2024 SeqNo: 3772679 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79684 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 79684 RunNo: 102194 Prep Date: 1/2/2024 Analysis Date: 1/2/2024 SeqNo: 3772680 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

90.8

110

Sample ID: MB-79690 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBS** Batch ID: 79690 RunNo: 102194 Analysis Date: 1/2/2024 Units: mg/Kg Prep Date: 1/2/2024 SeqNo: 3772697 Result **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual

Sample ID: LCS-79690 SampType: Ics TestCode: EPA Method 300.0: Anions

15.00

Client ID: LCSS Batch ID: 79690 RunNo: 102194

1.5

ND

1.5

Prep Date: 1/2/2024 Analysis Date: 1/2/2024 SeqNo: 3772698 Units: mg/Kg

RPDLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Chloride 14 1.5 15.00 0 92.0 90 110

Qualifiers:

Chloride

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

11

WO#: **2312F02** *08-Jan-24*

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-79675 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 79675 Client ID: **LCSS** RunNo: 102162 Prep Date: 1/1/2024 Analysis Date: 1/1/2024 SeqNo: 3771005 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 61.9 45 50.00 90.4 130 Surr: DNOP 4.9 5.000 98.0 147

Sample ID: MB-79675 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 79675 RunNo: 102162 Prep Date: Analysis Date: 1/1/2024 1/1/2024 SeqNo: 3771008 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 ND 50 Motor Oil Range Organics (MRO)

107

69

147

10.00

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312F02 08-Jan-24

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: Ics-79669	Samp	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batc	n ID: 79 6	669	F	RunNo: 10	02187							
Prep Date: 12/29/2023	Analysis [Date: 1/2	2/2024	5	SeqNo: 37	772357	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	70	130						
Surr: BFB	2000		1000		202	15	244						
Sample ID: mb-79669	Samp	ype: ME	SLK	TestCode: EPA Method 8015D: Gasoline Range									

Client ID: PBS	Batch ID:	79669	F	RunNo: 10	2187				
Prep Date: 12/29/2023	Analysis Date:	1/2/2024	8	SeqNo: 37	72358	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5	.0							
Surr: BFB	990	1000		99.2	15	244			

Sample ID: 2312f02-001ams	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BH23-17 6'	Batch	n ID: 79 6	669	F	RunNo: 10	02187							
Prep Date: 12/29/2023	Analysis D	Date: 1/2	2/2024	5	SeqNo: 37	772488	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	21	4.9	24.41	0	86.0	70	130						
Surr: BFB	2000		976.6		205	15	244						

Sample ID: 2312f02-001amsd	Sampi	ype: MS	SD	res	tCode: El	A Method	8015D: Gasol	line Range	:	
Client ID: BH23-17 6'	Batch	h ID: 79 6	669	F	RunNo: 10	02187				
Prep Date: 12/29/2023	Analysis D	Date: 1/3	2/2024	5	SeqNo: 37	772489	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.39	0	90.4	70	130	4.85	20	
Surr: BFB	2000		975.6		202	15	244	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312F02 08-Jan-24

Client: Vertex Resources Services, Inc.

Project: Rattlesnake Federal Unit 001

Sample ID: LCS-79669	SampT	Гуре: LC:	S	Tes							
Client ID: LCSS	Batch	h ID: 79 6	669	F	RunNo: 10						
Prep Date: 12/29/2023	Analysis D	Date: 1/2	2/2024	5	SeqNo: 37	772369	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	90.8	70	130				
Toluene	0.92	0.050	1.000	0	92.2	70	130				
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130				
Xylenes, Total	2.8	0.10	3.000	0	93.2	70	130				
Surr: 4-Bromofluorobenzene	1.000		95.2	39.1	146						

Sample ID: mb-79669	Sampl	ype: MB	BLK	l estCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 79 6	669	F	RunNo: 10	02187					
Prep Date: 12/29/2023	Analysis D	Date: 1/2	2/2024	5	SeqNo: 37	772370	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	39.1	146				

Sample ID: 2312f02-002ams	SampT	ype: MS	;	Tes						
Client ID: BH23-17 8'	Batch	n ID: 796	669	F	RunNo: 10					
Prep Date: 12/29/2023	Analysis D	ate: 1/2	2/2024	5	SeqNo: 37	772472	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9737	0	88.2	70	130			
Toluene	0.87	0.049	0.9737	0	89.6	70	130			
Ethylbenzene	0.89	0.049	0.9737	0	91.5	70	130			
Xylenes, Total	2.7	0.097	2.921	0	91.6	70	130			
Surr: 4-Bromofluorobenzene	0.90		0.9737		92.2	39.1	146			

Sample ID: 2312f02-002amsd	SampT	ype: MS	D	Tes						
Client ID: BH23-17 8'	Batch	ID: 796	669	F	RunNo: 10					
Prep Date: 12/29/2023	Analysis D	ate: 1/2	2/2024	5	SeqNo: 37					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9775	0	88.9	70	130	1.23	20	
Toluene	0.88	0.049	0.9775	0	90.3	70	130	1.17	20	
Ethylbenzene	0.88	0.049	0.9775	0	90.4	70	130	0.808	20	
Xylenes, Total	2.7	0.098	2.933	0	91.9	70	130	0.732	20	
Surr: 4-Bromofluorobenzene	0.91		0.9775		93.4	39.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

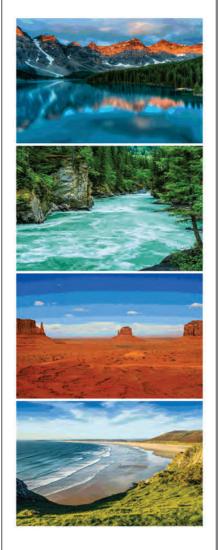
Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Sample Log-In Check List

Website: www.hallenvironmental.com Work Order Number: 2312F02 RcptNo: 1 Vertex Resources Client Name: Received By: **Tracy Casarrubias** 12/29/2023 7:15:00 AM 12/29/2023 7:50:26 AM Completed By: **Tracy Casarrubias** Reviewed By: Chain of Custody Yes No 🗹 Not Present 1. Is Chain of Custody complete? 2 How was the sample delivered? Courier Log In NA 🗌 No 🗌 Yes 🗹 3. Was an attempt made to cool the samples? No 🗌 NA 🗔 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗔 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? No 🗸 Yes NA 8. Was preservative added to bottles? NA 🗸 No 🗔 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗸 Yes 10. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗸 No 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🔽 No 12. Are matrices correctly identified on Chain of Custody? No 🗌 V 13. Is it clear what analyses were requested? Checked by: 7112 Yes 🗹 No 🗔 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗸 Yes 🗌 No L 15. Was client notified of all discrepancies with this order? Person Notified: Date: Phone Fax By Whom: eMail Regarding: Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 12/29/23 Additional remarks: 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	Morty		

Receiv	ed by	OC.	D: 3/	/13/2	2025	1:2	1:57 P	И-												T		Pag	ge 221 d	f 358
IATINIMINOGIVIES IN I	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis	*OS	PO4, S	7 DR (1) (1) (2)	8/88/8604 504- 10 01 81 10 40 10 40	od eta	15D leth yy 83 8 Me 3t, 1	######################################	>						7			Remarks: Direct bill to: Deven Wlo 井: 1005174603	cc. Kstallings @ Vertex.ca	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	□ Standard □ Rush & clay	Project Name:	Rattlesnake Federal Unit #001	Project #:	235-04815		kent Stallings	Mortiner	¥ Yes □ No mort-	ilers: ((Including CF): 0 4 + 0 - 0 4 (°C)	Container Preservative HEAL No. Type and # Type	_ Ice 001	200	003	400	500	900	+000 >				Received by: Via: COUNEr Date Time	boontracted to other accredited laboratories. This serves as notice of this I
Chain-of-Custody Record	Client: Vertex/Devon		Mailing Address: O. A. Le	1	Phone #:	email or Fax#:	QA/QC Package:	Az Con		(pd)		Date Time Matrix Sample Name	3 15:15 80:1			,		(2:30 BH23-28 0°	7			Optic: Time: Relinquished by:	Date: Time: Refinquished by:	If necessary, samples submitted to Hall Environmental may be \$\int \text{Supplies}

Report to: Chad Hensley



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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

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mgonzales@envirotech-inc.com

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Sample Summary

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

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.



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

BS24-10 @ 1' E412065-01

		E412003-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: 4-Bromochlorobenzene-PID		125 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: n-Nonane		107 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: JM		Batch: 2450030
Chloride	148	20.0	1	12/10/24	12/10/24	

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

BS24-9 @ 1'

		E412065-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		124 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030
Chloride	127	20.0	1	12/10/24	12/10/24	·



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

BS24-8 @ 1' E412065-03

		2.12000 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL	<u> </u>	Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
Ethylbenzene	ND	0.0250	1	12/10/24	12/10/24	
Coluene	ND	0.0250	1	12/10/24	12/10/24	
-Xylene	ND	0.0250	1	12/10/24	12/10/24	
,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
durrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
iurrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		99.9 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2450030
Chloride	154	20.0	1	12/10/24	12/10/24	



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

BS24-7 @ 1'

		E412065-04				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		102 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2450030
Chloride	201	20.0	1	12/10/24	12/10/24	



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

BS24-6 @ 1' E412065-05

		E412065-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		124 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		104 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030
Chloride	169	20.0	1	12/10/24	12/10/24	



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

BS24-5 @ 1' E412065-06

		E412005-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	Batch. 2 13 0023
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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		102 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030
Chloride	149	20.0	1	12/10/24	12/10/24	



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

BS24-4 @ 1'

		E412065-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: n-Nonane		101 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: JM		Batch: 2450030
Chloride	187	20.0	1	12/10/24	12/10/24	



Vertex Resource Services Inc.	Project Name:	Rattlesnake Federal Unit #001	
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Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/2024 12:51:31PM

BS24-3 @ 1'

		E412065-08				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		125 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: n-Nonane		103 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: JM		Batch: 2450030
Chloride	168	20.0	1	12/10/24	12/10/24	



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Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/2024 12:51:31PM

BS24-2 @ 1'

		E412065-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		125 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: JM		Batch: 2450030
Chloride	224	20.0	1	12/10/24	12/10/24	



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Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/2024 12:51:31PM

BS24-1 @ 1' E412065-10

		L-112003 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Benzene	ND	0.0250	1	12/10/24	12/10/24	
thylbenzene	ND	0.0250	1	12/10/24	12/10/24	
oluene	ND	0.0250	1	12/10/24	12/10/24	
-Xylene	ND	0.0250	1	12/10/24	12/10/24	
,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
otal Xylenes	ND	0.0250	1	12/10/24	12/10/24	
urrogate: 4-Bromochlorobenzene-PID		125 %	70-130	12/10/24	12/10/24	
Onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
asoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	12/10/24	12/10/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2450025
piesel Range Organics (C10-C28)	ND	25.0	1	12/10/24	12/10/24	
Dil Range Organics (C28-C36)	ND	50.0	1	12/10/24	12/10/24	
urrogate: n-Nonane		106 %	50-200	12/10/24	12/10/24	
anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030
Chloride	228	20.0	1	12/10/24	12/10/24	



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Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/2024 12:51:31PM

BS24-11 @ 1'

		E412065-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
p-Xylene	ND	0.0250	1	12/10/24	12/10/24	
o,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		104 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030
Chloride	196	20.0	1	12/10/24	12/10/24	



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Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/2024 12:51:31PM

BS24-12 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,m-Xylene	ND	0.0500	1	12/10/24	12/10/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/10/24	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		105 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2450030
Chloride	122	20.0	1	12/10/24	12/10/24	· · · · · · · · · · · · · · · · · · ·



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

BS24-13 @ 4.1'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: SL		Batch: 2450023
ND	0.0250	1	12/10/24	12/10/24	
ND	0.0250	1	12/10/24	12/10/24	
ND	0.0250	1	12/10/24	12/10/24	
ND	0.0250	1	12/10/24	12/10/24	
ND	0.0500	1	12/10/24	12/10/24	
ND	0.0250	1	12/10/24	12/10/24	
	126 %	70-130	12/10/24	12/10/24	
mg/kg	mg/kg	Anal	lyst: SL		Batch: 2450023
ND	20.0	1	12/10/24	12/10/24	
	111 %	70-130	12/10/24	12/10/24	
mg/kg	mg/kg	Anal	lyst: AF		Batch: 2450025
ND	25.0	1	12/10/24	12/10/24	
ND	50.0	1	12/10/24	12/10/24	
	105 %	50-200	12/10/24	12/10/24	
mg/kg	mg/kg	Anal	lyst: JM		Batch: 2450030
<u> </u>					
	mg/kg ND Mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 20.0250 111 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 105 %	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 mg/kg mg/kg Ana ND 20.0 1 III % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 105 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0500 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/10/24 mg/kg mg/kg Analyst: AF ND 25.0 1 12/10/24 ND 50.0 1 12/10/24 ND 50.0 1 12/10/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/10/24 12/10/24 ND 0.0250 1 12/10/24 12/10/24 ND 0.0250 1 12/10/24 12/10/24 ND 0.0500 1 12/10/24 12/10/24 ND 0.0250 1 12/10/24 12/10/24 ND 0.0250 1 12/10/24 12/10/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/10/24 12/10/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/10/24 12/10/24 mg/kg mg/kg Analyst: AF ND 25.0 1 12/10/24 12/10/24 ND 50.0 1 12/10/24 12/10/24 ND 50.0 1 12/10/24 12/10/24 ND 50.0 <



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

BS24-14 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		107 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2450030
Chloride	40.0	20.0	1	12/10/24	12/10/24	



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

BS24-15 @ 1'

E412065-15

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: 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	
Surrogate: n-Nonane		108 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2450030
Chloride	77.0	20.0	1	12/10/24	12/10/24	



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

BS24-16 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		111 %	70-130	12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		104 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2450030
Chloride	ND	20.0	1	12/10/24	12/10/24	



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

BS24-17 @ 4.1'

E41		

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
Surrogate: 4-Bromochlorobenzene-PID		127 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		105 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2450030
Chloride	ND	20.0	1	12/10/24	12/10/24	



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

BS24-18 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: n-Nonane		107 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2450030
Amons by ETA 500:0/7030A						



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

BS24-19 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		127 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		112 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		103 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2450030



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

BS24-20 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		126 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2450023
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: 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	
Surrogate: n-Nonane		104 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: JM		Batch: 2450030
Chloride	101	20.0	1	12/10/24	12/10/24	·



QC Summary Data

Vertex Resource Services Inc. Rattlesnake Federal Unit #001 Project Name: Reported: 3101 Boyd Drive Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Chad Hensley 12/12/2024 12:51:31PM **Volatile Organics by EPA 8021B** Analyst: SL Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2450023-BLK1) Prepared: 12/10/24 Analyzed: 12/10/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 9.50 8.00 119 70-130 LCS (2450023-BS1) Prepared: 12/10/24 Analyzed: 12/10/24 4.45 5.00 89.0 70-130 0.0250 Benzene Ethylbenzene 4.34 0.0250 5.00 86.8 70-130 4.41 88.2 70-130 0.0250 5.00 Toluene 4.34 86.8 70-130 o-Xylene 0.0250 5.00 8.86 0.0500 10.0 70-130 p,m-Xylene 13.2 15.0 88.0 70-130 0.0250 Total Xylenes 70-130 8.00 123 Surrogate: 4-Bromochlorobenzene-PID 9.83

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	

Iatrix 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-Bromochlorohenzene-PID	9 96		8.00		124	70-130				

Matrix Spike Dup (2450023-MSD2)

40.1

8.73

20.0

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:51:31PM

Carlsbad NM, 88220		Project Manage	r: Ch	ad Hensley				12/1	2/2024 12:51:31PM
	Non		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
Blank (2450023-BLK1)							Prepared: 12	2/10/24 Analy	yzed: 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	2/10/24 Analy	yzed: 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	2/10/24 Analy	yzed: 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			

8.00

Source: E412065-05

80.1

109

ND

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

20

1.76

70-130

70-130

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:51:31PM

Carlsbad NM, 88220		Project Manage	r: Ch	ad Hensley]	12/12/2024 12:51:31P
	Nonha	logenated Or			Analyst: AF				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2450025-BLK1)							Prepared: 1	2/10/24 A	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	57.3		50.0		115	50-200			
LCS (2450025-BS1)							Prepared: 1	2/10/24 A	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
urrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2450025-MS1)				Source:	E412065-	05	Prepared: 1	2/10/24 A	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
urrogate: n-Nonane	51.4		50.0		103	50-200			
Matrix Spike Dup (2450025-MSD1)				Source:	E412065-	05	Prepared: 1	2/10/24 A	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	1.36	20	
'urrogate: n-Nonane	48.6		50.0		97.2	50-200			



LCS Dup (2450030-BSD1)

Chloride

250

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

20

90-110

99.9

0.336

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive	Project Name: Project Number:	,			#001			Reported:						
Carlsbad NM, 88220		Project Manager:	C	Chad Hensley		1	2/12/2024 12:51:31PM							
Anions by EPA 300.0/9056A Analyst: JM														
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit						
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes					
Blank (2450030-BLK1)							Prepared: 1	12/10/24 Analyzed: 12/10/24						
Chloride	ND	20.0												
LCS (2450030-BS1)							Prepared: 1	2/10/24 Ar	nalyzed: 12/10/24					
Chloride	249	20.0	250		99.6	90-110								

250

20.0

QC Summary Report Comment:

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



Definitions and Notes

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/12/24 12:51

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

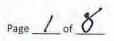
DNR Did not react with the addition of acid or base.

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



on		Invoice Information			Lab Use Only								T	AT		State					
	Company: Devon Energy			E412065 01			Job	Number		1D	1D 2D		Std	1 1	MI	OUT	TX				
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			Carlsbad, NM, 88	8220													-				1
		Phone: 5	75-689-7597						Ana	lysis	and	Met	hod					EPA	Progra	m	Ī
220	20 Email: Jim.Raley@dvn.com															SDW	/A	CWA	RCRA	Ī	
	-	Miscellaneous:																			Ī
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No. of ntainers		Sample ID		Field un Namer	ab	DRO/ORO by 8015	SRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	ICEQ 1005 - TX	RCRA 8 Metals	ation/Anion Pkg				R	emarks		
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E-01414	Jim Ral	ey	V																		
enticity of	this sample. I	am aware that tampering with	or intentionally mislabe	ling the sample I	locati	on, dat	e or tir	ne of	collecti	on is c	onside	red fr	aud an	d may	be gro	unds	for legal	action.			
Inata	Two.		-	D-1- A		Ire					Commission		of a lab about	and the		face ratio	04 65 SV-1	to self on	to a Million of the	HOUSE STATE	
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Page 31 of 35

Chain of Custody

Page 2 of 5

on		Invoice Informati	on					se Or					T	АТ				Stat	e	
ral Unit #0	01	Company: Devon Ener Address: 5315 Buena V City, State, Zip: Carlsbad , NN	/ista	Lab E	WO#	a	5	Olo	Num 58.	ber	7	1D	2D	3D St	d	×	A C	O UT	TX	
		Phone: 575-689-7597	1, 88220					Ana	alysis	and	Met	thod				E	ΕPA	Progra	am	
220		Email: Jim.Raley@dv	n.com	1											5	DWA		CWA	RCR	A
com, Rplog	ger@vert	Miscellaneous:			8015	8015			0.			30	kg			mplia WSID #	_	Υ	or	N
	Sample Info	ormation			30 by	3O by	802	8260	300	NN	35 - TX	Meta	nion F			77310 1	1		-	
No. of ntainers		Sample ID	Field	Lab umber	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				Re	emarks		
1		BS24-11 @ 1'			X	x	х		x											
1		BS24-12 @ 4.1'	12	2	X	x	x		x						1					
1		BS24-13 @ 4.1'	1:	3	X	x	x		x						T					
1		BS24-14 @ 4.1'	10		X	x	x		x						1					
1		BS24-15 @ 1'	-	5	X	x	x		x						1					
1		BS24-16@ 4.1'		6	X	x	x		x						1					
1		BS24-17 @ 4.1'		7	X	x	x		x						1					
1		BS24-18 @ 4.1'	1	8	X	x	x		x						1					
1		BS24-19 @ 4.1'	1	9	X	x	х		х											
1		BS24-20 @ 4.1'		20	X	x	х		х											
E-01414	Jim Raley														1					
nenticity of th	is sample. I am a	aware that tampering with or intentionally mi	slabeling the samp	le location	on, date	e or ti	me of	collect	ion is c	conside	ered fr	aud ar	nd may	be ground	s for	egal act	tion.			7
Date 12-9-2	4 11:C	Received by (Signature)	Date 0	7.74	Time	14	K					200		eservation in ice at an						
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Printed: 12/10/2024 9:53:18AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

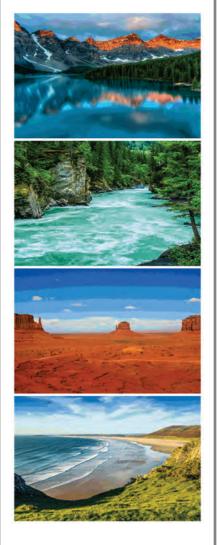
Instructions: Please take note of any NO checkmarks.

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

					J	
Client:	Vertex Resource Services Inc.	Date Received:	12/10/24 0	07:00	Work Order ID:	E412065
Phone:	(575) 748-0176	Date Logged In:	12/09/24 1	6:07	Logged In By:	Noe Soto
Email:	chensley@vertexresources.com	Due Date:	12/16/24 1	17:00 (4 day TAT)		
1. Does th	Custody (COC) ne sample ID match the COC?	1.4.000	Yes			
	ne number of samples per sampling site location mate	h the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes			
	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes		Comments/	Resolution
	urn Around Time (TAT)				Project Rattlesnake Feder	ral Unit #001 has
	COC indicate standard TAT, or Expedited TAT?		Yes		_	
Sample C					been seprted into mutiple	•
	sample cooler received?		Yes		sample volume. WOs are	;
•	was cooler received in good condition?		Yes		E412065-E412068.	
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes			
Sample C		<u></u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Lab	· ·	ors conceted.	103			
	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		No			
Sample P	reservation_					
21. Does t	the COC or field labels indicate the samples were pre	eserved?	No			
22. Are sa	imple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved me	etals?	No			
Multipha	se Sample Matrix					
26. Does t	the sample have more than one phase, i.e., multiphase	e?	No			
27. If yes,	does the COC specify which phase(s) is to be analyze	zed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laboratory	<i>1</i> 9	No			
	subcontract laboratory specified by the client and if		NA	Subcontract Lab	· NA	
				Successful Luc		
Chent In	<u>struction</u>					
						95 - 81
						1

Date

Report to: Chad Hensley



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Sample Summary

Γ	Vertex Resource Services Inc.	Project Name:	Rattlesnake Federal Unit #001	Danautada
١	3101 Boyd Drive	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Chad Hensley	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.



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

BS24-21 @ 4.1'

		L-112000 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: 4-Bromochlorobenzene-PID		86.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		115 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2450033
Chloride	ND	20.0	1	12/10/24	12/10/24	



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

BS24-22 @ 4.1'

		Donostin a				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		85.9 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		111 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450033
Chloride	81.8	20.0	1	12/10/24	12/10/24	



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

BS24-23 @ 4.1'

F41	21	1//		17
H.44		m	1	וו

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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	
o,m-Xylene	ND	0.0500	1	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/11/24	
Surrogate: 4-Bromochlorobenzene-PID		85.7 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: n-Nonane		114 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450033
· · · · · · · · · · · · · · · · · · ·	87.3	20.0		12/10/24	12/10/24	



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

BS24-24 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		85.2 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		108 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2450033



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

BS24-25 @ 4.1'

		Domontino				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		88.1 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: 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	
Surrogate: n-Nonane		116 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: DT		Batch: 2450033
Chloride	20.3	20.0	1	12/10/24	12/10/24	



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

BS24-26 @ 4.1'

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



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

BS24-27 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		85.3 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		116 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2450033



Chloride

Sample Data

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

BS24-28 @ 4.1' E412066-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		85.1 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	12/10/24	12/12/24	

mg/kg	mg/kg		Allalyst. 3L		Batch: 2430027
ND	20.0		1 12/10/24	12/12/24	
	97.8 %	70-130	12/10/24	12/12/24	
mg/kg	mg/kg		Analyst: NV		Batch: 2450035
ND	25.0		1 12/10/24	12/10/24	
ND	50.0	İ	1 12/10/24	12/10/24	
	118 %	50-200	12/10/24	12/10/24	
mg/kg	mg/kg		Analyst: DT		Batch: 2450033
_	ND mg/kg ND ND	97.8 % mg/kg mg/kg ND 25.0 ND 50.0	ND 20.0 97.8 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 118 % 50-200	ND 20.0 1 12/10/24 97.8 % 70-130 12/10/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/10/24 ND 50.0 1 12/10/24 118 % 50-200 12/10/24	ND 20.0 1 12/10/24 12/12/24 97.8 % 70-130 12/10/24 12/12/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/10/24 12/10/24 ND 50.0 1 12/10/24 12/10/24 118 % 50-200 12/10/24 12/10/24

20.0

32.1

12/10/24

12/10/24

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

BS24-29 @ 4.1'

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$\mathbf{E4}$	17	MA	61	M

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.6 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		110 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450033
Chloride	140	20.0	1	12/10/24	12/10/24	



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

BS24-30 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
Surrogate: 4-Bromochlorobenzene-PID		84.2 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		118 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450033
· · · · · · · · · · · · · · · · · · ·	89.2	20.0	-	12/10/24	12/10/24	



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

BS24-31 @ 4.1'

	Reporting					
Result	Limit	Dilut	tion I	Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: SL			Batch: 2450027
ND	0.0250	1	1	12/10/24	12/12/24	
ND	0.0250	1	1	12/10/24	12/12/24	
ND	0.0250	1	1	12/10/24	12/12/24	
ND	0.0250	1	1	12/10/24	12/12/24	
ND	0.0500	1	1	12/10/24	12/12/24	
ND	0.0250	1	1	12/10/24	12/12/24	
	84.1 %	70-130		12/10/24	12/12/24	
mg/kg	mg/kg	A	Analyst: SL			Batch: 2450027
ND	20.0	1	1	12/10/24	12/12/24	
	98.4 %	70-130	i	12/10/24	12/12/24	
mg/kg	mg/kg	A	Analyst: NV			Batch: 2450035
ND	25.0	1	1	12/10/24	12/10/24	
ND	50.0	1	1	12/10/24	12/10/24	
				12/10/24	12/10/24	
	114 %	50-200	1	12/10/24	12/10/24	
mg/kg	114 % mg/kg		Analyst: DT	12/10/24	12/10/24	Batch: 2450033
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 84.1 % mg/kg ND 20.0 98.4 % mg/kg mg/kg mg/kg ND 25.0	Result Limit Dilute mg/kg mg/kg 4 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 84.1 % 70-130 mg/kg mg/kg ND 20.0 1 98.4 % 70-130 mg/kg mg/kg 4 ND 25.0 1	Result Limit Dilution I mg/kg mg/kg Analyst: SL ND 0.0250 1 1 ND 0.0250 1 1 ND 0.0250 1 1 ND 0.0500 1 1 ND 0.0250 1 1 ND 0.0250 1 1 84.1 % 70-130 1 1 mg/kg mg/kg Analyst: SL 1 mg/kg mg/kg Analyst: NV 1 ND 25.0 1 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0250 1 12/10/24 ND 0.0500 1 12/10/24 ND 0.0250 1 12/10/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/10/24 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: NV ND 25.0 1 12/10/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/10/24 12/12/24 ND 0.0500 1 12/10/24 12/12/24 ND 0.0250 1 12/10/24 12/12/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/10/24 12/12/24 mg/kg mg/kg Analyst: SL 12/10/24 12/12/24 mg/kg mg/kg Analyst: NV 12/10/24 12/12/24



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

BS24-32 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
p-Xylene	ND	0.0250	1	12/10/24	12/12/24	
o,m-Xylene	ND	0.0500	1	12/10/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/10/24	12/12/24	
Surrogate: 4-Bromochlorobenzene-PID		83.8 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450033
Chloride	72.0	20.0	1	12/10/24	12/10/24	•



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

BS24-33 @ 4.1'

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



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

BS24-34 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.3 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		111 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2450033



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

BS24-35 @ 4.1'

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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.0 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2450033
					12/10/24	



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

BS24-36 @ 4.1'

		D am a :-+!:				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilutio	ii i repared	Analyzeu	TOLES
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.5 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450033
Chloride	89.3	20.0	1	12/10/24	12/10/24	·



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

BS24-37 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.2 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: n-Nonane		111 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2450033



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

BS24-38 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.0 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: n-Nonane		116 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2450033



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

BS24-39 @ 4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: 4-Bromochlorobenzene-PID		83.8 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		113 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2450033



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

BS24-40 @ 4.1'

		E412066-20				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.3 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450027
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	12/10/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		111 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450033
Chloride	29.0	20.0	1	12/10/24	12/10/24	



QC Summary Data

Rattlesnake Federal Unit #001 Vertex Resource Services Inc. Project Name: Reported: 3101 Boyd Drive Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Chad Hensley 12/12/2024 12:55:54PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2450027-BLK1) Prepared: 12/10/24 Analyzed: 12/11/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: 4-Bromochlorobenzene-PID 6.99 8.00 87.3 70-130 LCS (2450027-BS1) Prepared: 12/10/24 Analyzed: 12/11/24 4.53 90.7 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.44 0.0250 5.00 88.8 70-130 4.52 0.0250 5.00 90.4 70-130 Toluene o-Xylene 4.44 0.0250 5.00 88.8 70-130 9.03 10.0 90.3 70-130 0.0500 p.m-Xvlene 13.5 0.0250 15.0 89.8 70-130 Total Xylenes 8.00 87.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.03 Matrix Spike (2450027-MS1) Source: E412066-05 Prepared: 12/10/24 Analyzed: 12/11/24 4.36 0.0250 5.00 ND 87.2 54-133 Benzene ND 85.5 61-133 Ethylbenzene 4.27 0.0250 5.00 Toluene 4.35 0.0250 5.00 ND 87.0 61-130 4.27 ND 85.5 63-131 5.00 0.0250 o-Xylene p,m-Xylene 8.70 0.0500 10.0 ND 87.0 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.02 8.00 Matrix Spike Dup (2450027-MSD1) Source: E412066-05 Prepared: 12/10/24 Analyzed: 12/11/24

4.53

4.45

4 53

4.43

9.05

13.5

6.89

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

ND

89.0

90.6

88.7

90.5

89.9

86.2

54-133

61-133

61-130

63-131

63-131

63-131

70-130

3.78

4.02

4.02

3.72

3.96

3.88

20

20

20

20

20



Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Matrix Spike Dup (2450027-MSD2)

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

41.7

7.81

20.0

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:55:54PM

Carlsbad NM, 88220		Project Manager	:: Ch	ad Hensley				12/	12/2024 12:55:54F
	Non	halogenated (Organics l	oy EPA 801	15D - Gl	RO			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
Blank (2450027-BLK1)							Prepared: 12	2/10/24 Ana	lyzed: 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	2/10/24 Ana	lyzed: 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	2/10/24 Ana	lyzed: 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			

8.00

Source: E412066-05

83.5

97.6

ND



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

20

5.42

70-130

70-130

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:55:54PM

Carisbad NWI, 88220		Project Manager	r. Cn	ad Hensley				1	2/12/2024 12.55.54F
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2450035-BLK1)							Prepared: 1	2/10/24 Aı	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.6		50.0		111	50-200			
LCS (2450035-BS1)							Prepared: 1	2/10/24 Aı	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
urrogate: n-Nonane	53.9		50.0		108	50-200			
Matrix Spike (2450035-MS1)				Source:	E412066-1	10	Prepared: 1	2/10/24 Aı	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
urrogate: n-Nonane	54.4		50.0		109	50-200			
Matrix Spike Dup (2450035-MSD1)				Source:	E412066-1	10	Prepared: 1	2/10/24 Aı	nalyzed: 12/10/24
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132	4.25	20	
urrogate: n-Nonane	56.0		50.0		112	50-200			

Chloride

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number		Rattlesnake Fed	leral Unit	#001			Reported:
Carlsbad NM, 88220		Project Manager		Chad Hensley 300.0/9056	Λ			12	2/12/2024 12:55:54PM 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 Notes
Blank (2450033-BLK1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
Chloride	ND	20.0							
LCS (2450033-BS1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
Chloride	256	20.0	250		103	90-110			
LCS Dup (2450033-BSD1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24

250

20.0

103

90-110

0.799

20

259

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.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/12/24 12:55

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Page 3 of 8

on	Invoice Information	n		L	ab Us	se Or	nly				T	AT		Sta	te
ral Unit #001	Company: Devon Energy Address: 5315 Buena Vis City, State, Zip: Carlsbad, NM,	ta	4120	560	0	Olo	Num S&	ber	n	1D	2D	3D Std	NI x	VI CO U	TX
	Phone: 575-689-7597	00220				Ana	alysis	and	Met	thod				EPA Prog	ram
220	Email: Jim.Raley@dvn.	.com											SDWA		
com, Rplogger@	Miscellaneous:		8015	8015			0			2	K 8		Complia	MARKET INTO	or N
Samp	ole Information		30 by	40 by	8021	8260	300	- NM	XT - 21	Meta	nion P		PVVSID	#]	
No. of ntainers	Sample ID	Pield Filler Page 1	0	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remark	3
1	BS24-21 @ 4.1'		X	x	x		x								
1	BS24-22 @ 4.1'	2	X	x	x		x								
1	BS24-23 @ 4.1'	3	X	х	х		x			F					
1	BS24-24 @ 4.1'	4	X	х	х		х								
1	BS24-25 @ 4.1'	5	X	x	x		x								
1	BS24-26@ 4.1'	6	X	x	х		x								
1	BS24-27 @ 4.1'	7	X	x	х		x								
1	BS24-28 @ 4.1'	8	X	x	x		х								
1	BS24-29 @ 4.1'	9	X	x	x		х		•						
1	BS24-30 @ 4.1'	10	X	х	x		х				17				
E-01414 Jim	Raley														
henticity of this samp	le. I am aware that tampering with or intentionally misla	beling the sample lo	ation, dat	e or ti	me of	collect	ion is a	onside	ered fr	aud an	d may	be grounds	for legal ac	tion.	
12-9-24	Time Received by: (Signature)	1292	4 ime	14	5							eservation mu in ice at an avg			
2 9.24	Received W. Signature	Date 17. • Q.1	Y Time	163	0			Rece	eived	l on i	ce:	Sab Us	e Only		
12.4.24	Received by: (Signature)	12-10-24	7.0	Ø				T1			_ ,	T2		<u>T3</u>	
Date	Received by: (Signature)	Date	(Ime	alas-		-h./-	la ati	AVG				†			
A - Aqueous, O - Othe	r ed unless other arrangements are made. Hazardor	Container T											forth	antimi- af o	an above

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envirotech

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Chain of Custody

Page <u>4</u> of <u>8</u>

on		Invoice Informa	ation			La	ab Us	e Or	nly				T	AT				State	9	
		Company: Devon En		Lab	WO#				Num			1D	2D	3D	Std	1	IM C	OUT	TX	П
ral Unit #	‡00 <u>1</u>	Address: 5315 Buena		EZ	42	00	a	DIC	228	ω					X	×				
		City, State, Zip: Carlsbad, N	NM, 88220		.,															
		Phone: 575-689-7597	7					Ana	lysis	and	Met	hod					EPA	Progra	ım	
220		Email: Jim.Raley@d	dvn.com						-							SDW	/A	CWA	RCRA	1
		Miscellaneous:																		
com, Rpl	ogger@vert				8015	015			1				-			Comp	iance	Y	or 1	1
					8 Ac	8 /c	21	0	0.00	Σ	×	tals) Pkg			PWSII) #			
	Sample Info	ormation			DRO/ORO by	SRO/DRO by 8015	BTEX by 8021	/OC by 8260	Chloride 300.0	BGDOC - NM	FCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg							
No. of		Sample ID	Field Filter	.ab	0/0	0/0	EXP	CB	loric	DOC	0.10	RAE	ion/				R	emarks		
intainers			E E Nu	mber	DR	GR	BI	>	5	BG	2	RC	E							
1		BS24-31 @ 4.1'	1	1	X	x	x		x											
1		BS24-32 @ 4.1'	17	7	X	x	x		х				1							ī
			1 1	-	V		-								-		_	_		_
1		BS24-33 @ 4.1'	13	3	X	x	x		X											
1		BS24-34 @ 4.1'	10	1	X	х	x		x											
-		BS24-35 @ 4.1'	-	-				-		-	-					-				
1			1:	5	X	Х	X		X											
1		BS24-36@ 4.1'	1	0	X	x	x		x											
1		BS24-37 @ 4.1'	1	7	v	x	x		х						71					
-		BS24-38 @ 4.1'		-	Λ												-		-	
1			1	8	X	X	X		X											
1		BS24-39 @ 4.1'	1	9	X	X	x		x											
1		BS24-40 @ 4.1'		20	Y	x	x		x											
	0.51		-	-	1	32	-			-								_		-
E-01414	Jim Raley																			
henticity of	this sample I am a	aware that tampering with or intentionally	mislabeling the sample	location	on date	e or tir	ne of	collect	ion is c	onside	red fr	aud an	d may	be gro	unds f	for legal	action.			
	4.04 (40.0E-40.)	The state of the s					1	111111	2.4.2.4	2000				77.0	7-11-5	7	23500			
Date	Time	Received by: Signature)	De O	2/	Time	17	1			Sample	s requi	ring the	ermal pr	reservati	ion mu	ist be rece	ived on	ice the day	they are	
12-9	-24 11:0	0 GAN	19.90	14	1	14	2			sample	d or re	ceived p	packed	in ice at	an avg	temp ab	ove 0 bu	t less than	5 °C on	
12-9 Date 12	7 a Time	/ Received by: (Signature)	A Date	-	Time	1	,				uont d	Name .		Lal	b Us	e Only	1			
126	124 1	(BD) (Laken) (4. 12.9	1.24	1	6	50			Rece	ived	on i	ce:							
Date	Time	Received by: (Signature)	Date		Time		_							-						
12.0	7.29 27	39 1 - Tie 181	un 12.10.	74	7:0	0				T1				T2			Ta	3		
Date	Time	Descrived by: (Signature)	Date	•	Time								1	1						
										AVG	Tem	p "C		7						
A - Aqueous			Containe																	
		ss other arrangements are made. Haza									e clie	nt exp	ense.	The re	eport	for the	analys	is of the	above	
les receive	d by the laborate	ory with this COC. The liability of the la	boratory is limited t	to the	amour	it pai	d for c	on the	repor	rt.										

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

Envirotech Analytical Laboratory

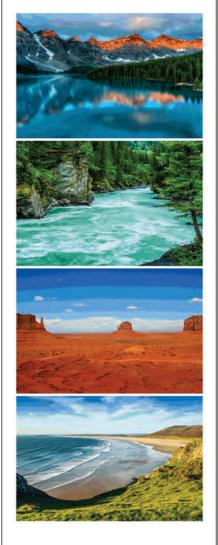
Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client Vertex Resource Services Inc. Date Received 12/10/24 07:00 Mork Order ID: 6412066
Email: chemsley@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 5. Were all samples received within holding time? Yes 5. Were all samples received within holding time? Yes 6. Did the COC conflete, i.e., signatures, dates/times, requested analyses? Yes 6. Did the COC cindicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? Yes 10. Were custody/security seals present? Yes 10. Were custody/security seals intact? Yes Note: Theman preservation is not required, if samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in WOA Vials? NA 17. Was a trip blank (TB) included for VOC analyses? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes 19. Ower field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? Yes Collectors name? Yes Collectors na
Chain of Custody (COC) 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or earnier? 4. Was the COC complete, i.e., signatures, dates/times, requested analysse? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conduced 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? 8. If yes, was cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous 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 Gornet containers? 19. Is the appropriate volume/weight or number of sample containers collected? Yes 19. User field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Yes Collectors name? Yes Collectors name?
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discuession. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intat, i.e., not broken? 9. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Themal preservation is not required, if samples are received wil 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 15. Any OC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Ower field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? Yes Collectors name?
2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pit which should be conducted in the field, i.e., is minute hold time, are not included in this dissuession. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received intact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals present? 12. Was the sample received on iee? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wil 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples collected in VOA Vials? 15. Are VOC samples collected in the correct containers? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was at ip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers or letted Label 19. Owere field sample labels filled out with the minimum information: Sample ID? 20. Were field sample labels filled out with the minimum information: Sample ID? 20. Were field sample labels filled out with the minimum information: Sample ID? 20. Were field sample labels filled out with the minimum information: Sample ID? 20. Were field sample labels filled out with the minimum information: Sample ID? 20. Were field sample labels filled out with the minimum information: 20. Were field sample labels filled out with the minimum information: 20. Were field sample labels filled out with the minimum information: 20. Were field sample labels filled out with the minimum information: 21. The sample sample sample sample sample s
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Sample ID? Date/Time Collected? Collectors name? Yes No
Collectors name? No
110
Sample Preservation
21. Does the COC or field labels indicate the samples were preserved?
22. Are sample(s) correctly preserved?
24. Is lab filteration required and/or requested for dissolved metals? No
Multiphase Sample Matrix
26. Does the sample have more than one phase, i.e., multiphase?
27. If yes, does the COC specify which phase(s) is to be analyzed?
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
CHERT THIST DECIDIE

Report to: Chad Hensley



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Sample Summary

Vertex Resource Services Inc.	Project Name:	Rattlesnake Federal Unit #001	Donoutoda
3101 Boyd Drive	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Chad Hensley	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.



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

BS24-41 @ 4.1' E412067-01

		2.12007 01					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		93.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		93.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		121 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2450034
Chloride	79.5	20.0		1	12/10/24	12/10/24	



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-42 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: l	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	
Surrogate: Bromofluorobenzene		98.6 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: 1	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	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	
Surrogate: n-Nonane		116 %	50-200	·	12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	DT		Batch: 2450034



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-43 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
Surrogate: Bromofluorobenzene		95.7 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: BA	1		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		95.7 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Surrogate: n-Nonane		120 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2450034
11110115 6 1 11111 0 0 0 0 0 7 5 0 0 0 1 1							



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-44 @ 4.1'

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



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-45 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: B	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	
Surrogate: Bromofluorobenzene		95.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: B	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		95.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: A	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	
Surrogate: n-Nonane		120 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: D	DΤ		Batch: 2450034



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-46 @ 4.1'

		2112007 00					
Austra	Dl/	Reporting			D d	A	Nister
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		93.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		93.9 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		114 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2450034
Chloride	79.1	20.0	_	1	12/10/24	12/10/24	<u> </u>
Cinoriae		20.0					



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-47 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: I	ВА		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	
Surrogate: Bromofluorobenzene		92.5 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	ВА		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/10/24	12/10/24	
Surrogate: Bromofluorobenzene		92.5 %	70-130		12/10/24	12/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		12/10/24	12/10/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: A	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	
Surrogate: n-Nonane		116 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I	DT		Batch: 2450034



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-48 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		93.3 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		106 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		93.3 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		106 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		120 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034
Chloride	91.0	20.0		1	12/10/24	12/10/24	



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-49 @ 4.1'

		E412067-09					
	D 1:	Reporting		.•			N .
Analyte	Result	Limit	Dili	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		92.1 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		92.1 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		127 %	50-200		12/10/24	12/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034
	•		•				

20.0

12/10/24

12/10/24

246



Chloride

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-50 @ 4.1'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	ļ	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.0 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	ļ.	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.0 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		103 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	Į.	12/10/24	12/11/24	
Surrogate: n-Nonane		110 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-51 @ 4.1'

		2112007 11					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		95.4 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		95.4 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		112 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034
Chloride	181	20.0		1	12/10/24	12/10/24	



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

BS24-52 @ 4.1'

		E412067-12					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	Ī	1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		95.1 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		95.1 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		115 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034
Chloride	38.9	20.0		1	12/10/24	12/10/24	



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-53 @ 4.1'

Analyte	Result	Reporting Limit	Dilu	ition	Prepared	Analyzed	Notes
					1	7 maryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2450037
Benzene	ND	0.0250	1	l	12/10/24	12/11/24	
Ethylbenzene	ND	0.0250	1	l	12/10/24	12/11/24	
Toluene	ND	0.0250	1	l	12/10/24	12/11/24	
o-Xylene	ND	0.0250	1	l	12/10/24	12/11/24	
p,m-Xylene	ND	0.0500	1	l	12/10/24	12/11/24	
Total Xylenes	ND	0.0250	1	l	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.8 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.8 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2450036
Diesel Range Organics (C10-C28)	ND	25.0	1	1	12/10/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	12/10/24	12/11/24	
Surrogate: n-Nonane		123 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2450034
Chloride	87.5	20.0	1	1	12/10/24	12/10/24	



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-54 @ 3'

E412067-14 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: BA Batch: 2450037 mg/kg mg/kg **Volatile Organic Compounds by EPA 8260B** 12/10/24 12/11/24 ND 0.0250 Benzene 1 12/10/24 12/11/24 Ethylbenzene ND 0.0250 ND 0.0250 1 12/10/24 12/11/24 Toluene 1 12/10/24 12/11/24 o-Xylene ND 0.025012/10/24 12/11/24 ND 0.0500 1 p,m-Xylene 12/10/24 12/11/24 1 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 12/10/24 12/11/24 93.6 % 70-130 12/10/24 12/11/24 Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 Surrogate: Toluene-d8 104 % 70-130 12/10/24 12/11/24 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: BA Batch: 2450037 ND 20.0 1 12/10/24 12/11/24 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 93.6 % 12/10/24 12/11/24 70-130 103 % 12/10/24 12/11/24 Surrogate: 1,2-Dichloroethane-d4 70-130 12/10/24 12/11/24 Surrogate: Toluene-d8 104 % 70-130 Analyst: AF Batch: 2450036 Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg 12/10/24 12/11/24 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 12/10/24 12/11/24 Oil Range Organics (C28-C36) 117% 50-200 12/10/24 12/11/24 Surrogate: n-Nonane mg/kg mg/kg Analyst: DT Batch: 2450034 Anions by EPA 300.0/9056A

20.0

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12/10/24

12/10/24



Chloride

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-55 @ 3'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		94.2 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.2 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		121 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2450034
Chloride	158	20.0		1	12/10/24	12/10/24	

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-56 @ 3' E412067-16

		E412007-10				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilui	non Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
Surrogate: Bromofluorobenzene		94.5 %	70-130	12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		94.5 %	70-130	12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	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	
Surrogate: n-Nonane		121 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2450034
Chloride	94.2	20.0	1	12/10/24	12/10/24	



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

BS24-57 @ 3'

		E412067-17					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		92.8 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		92.8 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		119 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2450034
Chloride	129	20.0		1	12/10/24	12/10/24	



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

BS24-58 @ 3'

		E412067-18					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	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	
Surrogate: Bromofluorobenzene		93.0 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2450037
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24	
Surrogate: Bromofluorobenzene		93.0 %	70-130		12/10/24	12/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		12/10/24	12/11/24	
Surrogate: Toluene-d8		104 %	70-130		12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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	
Surrogate: n-Nonane		119 %	50-200		12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2450034
Chloride	23.0	20.0		1	12/10/24	12/10/24	



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

BS24-59 @ 3'

E412067-19													
		Reporting											
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes						
Volatile Organic Compounds by EPA 8260B	atile Organic Compounds by EPA 8260B 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							
Surrogate: Bromofluorobenzene		93.3 %	70-130		12/10/24	12/11/24							
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		12/10/24	12/11/24							
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/11/24							
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2450037						
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/10/24	12/11/24							
Surrogate: Bromofluorobenzene		93.3 %	70-130		12/10/24	12/11/24							
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		12/10/24	12/11/24							
Surrogate: Toluene-d8		105 %	70-130		12/10/24	12/11/24							
Nonhalogenated Organics by EPA 8015D - DRO/ORO	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							
Surrogate: n-Nonane		115 %	50-200		12/10/24	12/11/24							
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2450034						
Chloride	ND	20.0		1	12/10/24	12/10/24							



Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

Backfill Material

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



QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/13/2024 8:51:13AM

Carlsbad NM, 88220		Project Manage	r: Cl	nad Hensley				12/1	13/2024 8:51:13A
	Vo	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2450037-BLK1)							Prepared: 12	2/10/24 Anal	yzed: 12/10/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 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	2/10/24 Anal	yzed: 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			
Foluene	2.20	0.0250	2.50		88.1	70-130			
o-Xylene	2.32	0.0250	2.50		92.9	70-130			
o,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	2/10/24 Anal	yzed: 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	2/10/24 Anal	yzed: 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			
			0.500		102	70 120			

0.500

102

70-130

0.509

Surrogate: Toluene-d8

Gasoline Range Organics (C6-C10)

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/13/20248:51:13AM

	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2450037-BLK1)							Prepared: 1	2/10/24 Analy	yzed: 12/10/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
urrogate: Bromofluorobenzene	0.467		0.500		93.3	70-130					
urrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130					
iurrogate: Toluene-d8	0.514		0.500		103	70-130					
LCS (2450037-BS2)							Prepared: 1	2/10/24 Analy	yzed: 12/10/24		

Surrogate: Bromofluorobenzene	0.48/		0.500		97.4	/0-130	
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:	E412067-0	6	Prepared: 12/10/24 Analyzed: 12/10/24
Matrix Spike (2450037-MS2) Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	Source:	E412067-0	70-130	Prepared: 12/10/24 Analyzed: 12/10/24

70-130

70 - 130

104

51.5

0.520

Surrogate: Toluene-d8	0.526		0.500		105	70-130			
Matrix Spike Dup (2450037-MSD2)				Source:	E412067-0)6	Prepared: 12	2/10/24 Analyzed: 12	2/10/24
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			

0.500

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/13/20248:51:13AM

Result mg/kg mg/	Carlsbad NM, 88220		Project Manage	r: Ch	nad Hensley				12	2/13/2024 8:51:13A
Result Limit Level Result Rec Limits Rec Result Rec Limits Rec Result	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: AF	
Prepared: 12/10/24 Analyzed: 12/10/24 Prepared: 12/10/24	Analyte	Result				Rec		RPD		
ND 25.0 ND 25.0 ND 50.0		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
ND 50.0 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 116 50-200 117 117 1	Blank (2450036-BLK1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
Source: E412067-01 Prepared: 12/10/24 Analyzed: 12/10/24	Diesel Range Organics (C10-C28)	ND	25.0							
Prepared: 12/10/24 Analyzed: 12/10/24 Prepared: 12/10/24	Oil Range Organics (C28-C36)	ND	50.0							
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	58.1		50.0		116	50-200			
Matrix Spike (2450036-MS1) Source: E412067-01 Prepared: 12/10/24 Analyzed: 12/10/24 Prince Properties (C10-C28) 310 25.0 250 ND 124 38-132 Prepared: 12/10/24 Analyzed: 12/10/24 50.0 127 50-200 Matrix Spike Dup (2450036-MSD1) Source: E412067-01 Prepared: 12/10/24 Analyzed: 12/10/24 Prince Propared: 12/10/24 Analyzed: 12/10/24 117 38-132 5.81 20	LCS (2450036-BS1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
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 Diesel Range Organics (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	Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Source: E412067-01 Prepared: 12/10/24 Analyzed: 12/10/24	Surrogate: n-Nonane	58.3		50.0		117	50-200			
Source 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	Matrix Spike (2450036-MS1)				Source:	E412067-	01	Prepared: 1	2/10/24 An	alyzed: 12/10/24
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	Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	38-132			
Diesel Range Organics (C10-C28) 292 25.0 250 ND 117 38-132 5.81 20	Surrogate: n-Nonane	63.4		50.0		127	50-200			
	Matrix Spike Dup (2450036-MSD1)				Source:	E412067-	01	Prepared: 1	2/10/24 An	alyzed: 12/10/24
'urrogate: n-Nonane 60.2 50.0 120 50-200	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			



LCS (2450034-BS1)

LCS Dup (2450034-BSD1)

Chloride

Chloride

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

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

20

90-110

90-110

0.109

100

100

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number		Rattlesnake Fed 01058-0007	leral Unit	#001		Reported:			
Carlsbad NM, 88220	Project Manager: Chad Hensley							12/13/2024 8:51:13AM			
		Anions	by EPA	300.0/9056	A				Analyst: DT		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2450034-BLK1)							Prepared: 1	2/10/24 A	nalyzed: 12/10/24		
Chloride	ND	20.0									

250

250

20.0

20.0

251

251

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

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

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tion	Yana a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a san a s					La	b Us	se Or	nly							e	Ī		
eral Unit #	001	Company: Devon Energy Address: 5315 Buena Vista	a	La	412	10	7	Job	Num	ber	57	1D	2D	3D S		NM ×	CO UT	TX	
crar omen	552	City, State, Zip: Carlsbad , NM, 8			1164		-	0,0	- CAU		-			1 14		1			T
		Phone: 575-689-7597						Ana	alysis	and	Met	thod				EF	A Progr	am	ī
8220		Email: Jim.Raley@dvn.c	om						100							SDWA	CWA	RCRA	
5.1	0	Miscellaneous:			10	10											1 0		
.com, Rpic	ogger@vert				801	801			0		1.00	2	94 86		1	Compliant PWSID #	e Y	or N	-
	Sample Info	rmation			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		F	WILL H			1
No. of	•	The state of the s	ld ld	Lab	1/0R	MO/OR	Хьу	by	oride	200	2 100	A 8	n/A	1			Remarks		
Containers		Sample ID	Field	Numbe	or DRO	GRC	BTE	VOC	Chlc	BGD	TCEC	RCR	Catio						
1		BS24-41 @ 4.1'		1	X	x	x		x										
1		BS24-42 @ 4.1'		2	X	x	х		x										
1		BS24-43 @ 4.1'		3	X	x	х		x										1
1		BS24-44 @ 4.1'		4	X	x	x		х										
1		BS24-45 @ 4.1'		5	X	x	x		x										
1		BS24-46@ 4.1'		6	X	x	x		х										
1		BS24-47 @ 4.1'		7	X	x	х		х										1
1		BS24-48 @ 4.1'		8	X	х	x		х										
1		BS24-49 @ 4.1'		9	X	х	x		х										Ī
1		BS24-50 @ 4.1'		10	X	x	х		x										
3E-01414	Jim Raley																		1
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uthenticity of	this sample. I am av	wate that tampering with or intentionally mislab	ening the sa	mple loca	ation, dat	e ur ai	ne or t	Lonect	ion is c	Unside	neu m	auu ai	id iliay	ne groui	145 10	legal actic	111.		
Date 11-4	7-74 Time	Received by (Signature)	Pate	9.2	(The	4	5									be received emp above 0			Ī
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ples 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

Page 6 of 8

tion		Invoice Information	(r			L	ab U	se Or	nly			3	T	AT			Stat	e	
eral Unit #	‡001	Company: Devon Energy Address: 5315 Buena Vist		La	42	#do	7		Num		7	1D	2D	3D Std	-	NM (O UT	TX	
	2.00	City, State, Zip: Carlsbad , NM,	88220																
		Phone: 575-689-7597						Ana	alysis	and	Met	hod					Progra		
8220		Email: Jim.Raley@dvn.d	com												SD	WA	CWA	RCR	A
e.com, Rpl	ogger@vert	Miscellaneous:			015	015							201			pliance	Y	or	N
		245-486-5			- py 8	by 8	021	09	0,00	Z	×	etals	no Pk		PWS	SID#			
	Sample Info	rmation	h 4	Late	ORO	DRO	by 8	ny 82	de 3	- J	1005	S N	/Anic			-	Remarks		
No. of Containers		Sample ID	Field	Lab Numb	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005	RCRA 8 Metals	Cation/Anion Pkg			r	kemarks		
1		BS24-51 @ 4.1'		11	X	x	x		x										
1		BS24-52 @ 4.1'		12	X	х	x		x										
1		BS24-53 @ 4.1'		13	X	x	x		x										
1		BS24-54 @ 3'		14	X	x	х		x										
1		BS24-55 @ 3'		15	X	x	x		x										
1		BS24-56@ 3'		10	X	x	х		x										
1		BS24-57 @ 3'		17	X	x	x		x										
1		BS24-58 @ 3'		18	X	x	х		x										
1		BS24-59 @ 3'		19	X	x	x		x										
1		Backfill Material	1	20	K	x	х		x										7
23E-01414	Jim Raley				100										-				
	2000 3000 38																		
uthenticity of	this sample. I am a	ware that tampering with or intentionally mislab	eling the sa	ample loc	ation, da	te or ti	me of	collect	ion is o	onside	red fr	aud an	nd may	be grounds	for lega	al action			
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12-1	27 11.0		11	14.	Time)			enhead				Lab Us					_
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bate.	Time	Received by: (Signature)	Date	7.0	Time		_	1		Rece	ivea	on i	ce:	O'N					
17.0	1.14 22	20 1 11. 111	17	9.2	117	8				T1				T2		T.	3		
Date	Time	ecolition is Stratute In 19 A	A	100	Time					-			-/	1	-				-
1	1	Charles and the same			-					AVG	Tem	p °C	-	1					
e, A - Aqueous	, O - Other		Cont	ainer Ty	/pe: g -	glass,	p - p	oly/p	lastic					VOA					
fter results a	re reported unles	s other arrangements are made. Hazardou	s samples	will be r	eturned	to cli	ent or	dispo	sed o	f at th	e clie	nt exp	ense.	The report	t for th	e analy	sis of the	above	
ples receive	d by the laborato	ry with this COC. The liability of the laborat	tory is limit	ted to th	ne amou	nt pai	d for	on the	repo	rt.									

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

GI.	Vertex Resource Services Inc.	Data Danaina da	12/10/24 03	7.00	W. L.O. L. ID. EMANGE
Client:		Date Received:	12/10/24 07		Work Order ID: E412067
Phone:	(575) 748-0176	Date Logged In:	12/09/24 10		Logged In By: Noe Soto
Email:	chensley@vertexresources.com	Due Date:	12/16/24 1	7:00 (4 day TAT)	
Chain of	Custody (COC)				
	ne sample ID match the COC?		Yes		
	ne number of samples per sampling site location mat	ch the COC	Yes		
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	currer. <u>c</u>	Sourier
	Il samples received within holding time?		Yes		
	Note: Analysis, such as pH which should be conducted in				Comments/Desclution
~	i.e, 15 minute hold time, are not included in this disucssion	on.			<u>Comments/Resolution</u>
	Turn Around Time (TAT)		7.7		Project Rattlesnake Federal Unit #001 has
	COC indicate standard TAT, or Expedited TAT?		Yes		-
Sample C			37		been seprted into mutiple WOs due to high
	sample cooler received? was cooler received in good condition?		Yes		sample volume. WOs are
• •	S .		Yes		E412065-E412068.
	e sample(s) received intact, i.e., not broken?		Yes		
	custody/security seals present?		No		
•	were custody/security seals intact?		NA		
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes		
		temperature. 4 t	<u> </u>		
Sample C			Ma		
	queous VOC samples present? OC samples collected in VOA Vials?		No NA		
	head space less than 6-8 mm (pea sized or less)?		NA NA		
	trip blank (TB) included for VOC analyses?		NA		
	on-VOC samples collected in the correct containers')	Yes		
	appropriate volume/weight or number of sample contain		Yes		
Field Lat	· ·	iers conceteu.	103		
	field sample labels filled out with the minimum info	rmation.			
	ample ID?		Yes		
D	ate/Time Collected?		Yes	ı	
C	ollectors name?		No		
	<u>reservation</u>				
	the COC or field labels indicate the samples were pr	eserved?	No		
	ample(s) correctly preserved?		NA		
24. Is lab	filteration required and/or requested for dissolved n	netals?	No		
•	se Sample Matrix				
	the sample have more than one phase, i.e., multipha		No		
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA		
Subcontr	act Laboratory				
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No		
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	p: NA
Client Ir	<u>istruction</u>				

Date

Report to:
Chad Hensley



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

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

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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WS24-05 @ 0-4.1'	9
WS24-06 @ 0-4.1'	10
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WS24-08 @ 0-4.1'	12
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Sample Summary

ſ	Vertex Resource Services Inc.	Project Name:	Rattlesnake Federal Unit #001	Reported:
١	3101 Boyd Drive	Project Number:	01058-0007	Reported.
١	Carlsbad NM, 88220	Project Manager:	Chad Hensley	12/12/24 12:58

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.



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

WS24-01 @ 0-4.1'

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.8 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: 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	
Surrogate: n-Nonane		112 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2450040
Chloride	108	20.0	1	12/10/24	12/10/24	



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

WS24-02 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.5 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		107 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2450040



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

WS24-03 @ 0-1'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		84.1 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		115 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450040
Chloride	44.7	20.0	1	12/10/24	12/10/24	



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

WS24-04 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		81.9 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		120 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450040
Chloride	78.3	20.0	1	12/10/24	12/10/24	



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

WS24-05 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		81.4 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		117 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450040
Chloride	163	20.0		12/10/24	12/11/24	



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

WS24-06 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.0 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		121 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2450040
Chloride	81.4	20.0	1	12/10/24	12/11/24	



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

WS24-07 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		81.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		115 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450040
· · · · · · · · · · · · · · · · · · ·	160	20.0	1	12/10/24	12/11/24	



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

WS24-08 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.1 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: 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	
Surrogate: n-Nonane		117 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2450040
Chloride	200	20.0	1	12/10/24	12/11/24	•



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

WS24-09 @ 0-3'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		81.1 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		121 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450040
Chloride	60.9	20.0	1	12/10/24	12/11/24	•



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

WS24-10 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		81.0 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: n-Nonane		128 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2450040
Allohs by EPA 500.0/9050A						



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

WS24-11 @ 0-4.1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		82.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2450038
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/24	12/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	12/10/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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	
Surrogate: n-Nonane		130 %	50-200	12/10/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2450040
Chloride	168	20.0	1	12/10/24	12/11/24	



QC Summary Data

Rattlesnake Federal Unit #001 Vertex Resource Services Inc. Project Name: Reported: 3101 Boyd Drive Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Chad Hensley 12/12/2024 12:58:08PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2450038-BLK1) Prepared: 12/10/24 Analyzed: 12/11/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.70 8.00 83.7 70-130 LCS (2450038-BS1) Prepared: 12/10/24 Analyzed: 12/11/24 4.76 95.2 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.59 0.0250 5.00 91.7 70-130 4.70 0.0250 5.00 94.0 70-130 Toluene o-Xylene 4.57 0.0250 5.00 91.4 70-130 9.31 10.0 93.1 70-130 0.0500 p.m-Xvlene 92.5 70-130 13.9 15.0 Total Xylenes 0.0250 8.00 84.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.76 Matrix Spike (2450038-MS1) Source: E412068-03 Prepared: 12/10/24 Analyzed: 12/11/24 4.80 0.0250 5.00 ND 96.0 54-133 Benzene ND 92.5 61-133 Ethylbenzene 4.62 0.0250 5.00 Toluene 4.74 0.0250 5.00 ND 94.8 61-130 4.60 ND 92.0 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.39 0.0500 10.0 ND 93.9 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.68 8.00 Matrix Spike Dup (2450038-MSD1) Source: E412068-03 Prepared: 12/10/24 Analyzed: 12/11/24 4.82 0.0250 5.00 ND 54-133 0.443

4.66

4 77

4.65

9.47

14.1

6.70

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

93.3

954

92.9

94.7

94.1

83.7

61-133

61-130

63-131

63-131

63-131

70-130

0.876

0.652

1.00

0.902

0.936

20

20

20

20

20



Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:58:08PM

Carlsbad NM, 88220		Project Manage	r: Cł	nad Hensley				12/	12/2024 12:58:08PM		
	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		
Blank (2450038-BLK1)							Prepared: 1	2/10/24 Anal	yzed: 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: 1	2/10/24 Anal	yzed: 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: 1	2/10/24 Anal	yzed: 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: 1	2/10/24 Anal	yzed: 12/11/24		
Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.5	70-130	0.295	20			

8.00

7.86

98.3

70-130



QC Summary Data

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #001Reported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley12/12/2024 12:58:08PM

Carisbad NM, 88220		Project Manage	r: Cn	iad Hensley				1.	2/12/2024 12:58:08P
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2450043-BLK1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.3		50.0		111	50-200			
LCS (2450043-BS1)							Prepared: 1	2/10/24 An	alyzed: 12/10/24
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
urrogate: n-Nonane	55.6		50.0		111	50-200			
Matrix Spike (2450043-MS1)				Source:	E412068-	08	Prepared: 1	2/10/24 An	alyzed: 12/10/24
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
urrogate: n-Nonane	58.4		50.0		117	50-200			
Matrix Spike Dup (2450043-MSD1)				Source:	E412068-	08	Prepared: 1	2/10/24 An	alyzed: 12/10/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	38-132	2.72	20	
Gurrogate: n-Nonane	59.8		50.0		120	50-200			



Chloride

Chloride

LCS Dup (2450040-BSD1)

QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager		Rattlesnake Fed 01058-0007 Chad Hensley	leral Unit	#001		1	Reported: 2/12/2024 12:58:08PM
		Anions	by EPA	300.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2450040-BLK1)									nalyzed: 12/10/24
Chloride	ND	20.0							
LCS (2450040-BS1)							Prepared: 1	2/10/24 Ar	nalyzed: 12/10/24

250

250

90-110

90-110

0.232

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

20

103

103

257

257

20.0

20.0

QC Summary Report Comment:

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



Definitions and Notes

Vertex Resource Services Inc.Project Name:Rattlesnake Federal Unit #0013101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley12/12/24 12:58

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.



Address: 3101 Boyd dr.

Phone: 575-200-6167

Date Sampled

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

12/5/2024

ple Matrix: 5 - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O -

Time

Sampled

2:15

2:22

2:23

2:30

2:37

2:46

2:56

3:09

3:20

3:29

Received by OCD: 3/13/2025 1:21:57 PM

Chain of Custody

E412008 PM Lab Use Only TAT Client Information Invoice Information State Job Number Client: Vertex (bill to Devon) Company: Devon Energy Lab WO# E **410**2 1D 2D 3D Std NM CO UT TX Project Name: Rattlesnake Federal Unit #001 Address: 5315 Buena Vista Project Manager: Chad Hensley City, State, Zip: Carlsbad, NM, 88220 Phone: 575-689-7597 Analysis and Method **EPA Program** City, State, Zip: Carlsbad, NM, 88220 SDWA CWA RCRA Email: Jim.Raley@dvn.com Miscellaneous: Email: Rarnold@vertexresource.com, Rplogger@vert GRO/DRO by 8015 Y or N Compliance PWSID# RCRA 8 Metals Sample Information Filter Field Lab Remarks No. of Sample ID Matrix Containers Number WS24-01 @ 0-4.1' 1 X Soil X X WS24-02 @ 0-4.1' 1 Soil X X X WS24-03 @ 0-1' 1 Soil X X WS24-04@0-4.1' 1 Soil X X X X WS24-05 @ 0-4.1' Soil 1 X X X WS24-06 @ 0-4.1' 1 6 Soil X X X W524-07 @ 0-4.1' 1 Soil X X X WS24-08 @ 0-4.1' Soil 1 X X X WS24-09 @ 0-3' Soil 1 X X X WS24-10 @ 0-4.1' Soil 1 10 X X X Additional Instructions: WO: 23E-01414 Jim Raley (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. nples requiring thermal preservation must be received on ice the day they are mpled or received packed in ice at an avg temp above 0 but less than 6 °C on Lab Use Only Received on ice:

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.



AVG Temp

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

envirotech

Chain of Custody

Cient: Vertex (bill to Devon) Project Name: Rattlesnake Federal Unit #001 Project Manager: Chad Hensley Address: 31.01 Boyd dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-200-61.67 Email: Barnold@vertexresource.com, Rplogger@vert Sample Information Sample Information Company: Devon Energy Address: 531.5 Buena Vista City, State, Zip: Carlsbad, NM, 88220 Phone: 575-689-7597 Email: Jim.Raley@dvn.com Miscellaneous: Sample Information Sample Information WS24-11 @0-4.1' WS24-11 @0-4.1' Lab WO# CD UT X X Individual Summer Summe	e
Project Name: Rattlesnake Federal Unit #001 Project Manager: Chad Hensley Address: 310 Boyd dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-200-6167 Email: Rarnold@vertexresource.com, Rplogger@vert Sampled Date Sampled Matrix Time Sample	TX
City, State, Zip: Carlsbad, NM, 88220 Phone: 575-689-7597 City, State, Zip: Carlsbad, NM, 88220 Phone: 575-200-6167 Email: Rarnold@vertexresource.com, Rplogger@vert Sampled Date Sampled Date Sampled Matrix No. of Containers Containers Carlsbad, NM, 88220 Phone: 575-689-7597 Analysis and Method EPA Programment SDWA CWA CWA Compliance Y PWSID # PWSI	
City, State, Zip: Carlsbad, NM, 88220 Phone: 575-200-6167 Email: Jim.Raley@dvn.com Miscellaneous: Sample Information Time Sampled Date Sampled Matrix Sampled Date Sampled Matrix Sampled Date Sampled Matrix Sampled Date Sampled Natrix Sampled Date Sampled Date Sampled Natrix Mo. of Containers Sample Information Email: Jim.Raley@dvn.com Miscellaneous: SDWA CWA Compliance Y PWSID # Remark	
Phone: 575-200-6167	am
Phone: 575-200-6167	RCRA
Email: Rarnold@vertexresource.com, Rplogger@vert	
Sample Information Sampled Matrix Sampled Matrix Sampled Matrix Sampled Matrix Sampled Matrix Ma	or N
2.45 12/5/2024	
2.15 12/5/2024	
2.45 42/5/2024	
Additional Instructions: WO: 23E-01414 Jim Raley	
I, (field sampler), attest to the validity and authenticity of this sample. Lam 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 17-9-74 11: 00 Received by: (Signature) Date C 4 Time A Samples requiring thermal preservation must be received on ice the day sampled or received packed in ice at an avg temp above 0 but less than	
Regnaturshy (Signature) Qate Time Regnature) Date Time Lab Use Only	
Nellia filished by (Signature) Date Time 12.9.24 1630 Received on ice: (Y) N 12.9.24 7233 11114 1114 114	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T2 T3	
AVG Temp °C 9	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	



envirotech

envirotech Inc.

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Phone: (375) 3-8-9176	Client:	Vertex Resource Services Inc.	Date Received:	12/10/24	07:00	Work Order ID:	E412068
Chain of Custody (COC). Loes the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or earrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 7. Was a hold time, are not included in thin discussion. 5. Sample Count Around Time (TAR) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample ploy received intact, i.e., not broken? 10. Were custody/security seals intact? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on leaf If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wil 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? No 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? Yes Collectors name? No 20. Were field sample labels filled out with the minimum information: Sample DY: 21. Does the COC of field labels indicate the samples were preserved? No Multiphase Sample Mar more than one phase, i.e., multiphase? No 17. If yes, does the COC specify which phase(s) is to be analyzed? No 21. If yes, does the COC Specify which plaus(s) is to be analyzed? No	Phone:	(575) 748-0176	Date Logged In:	12/09/24	16:17	Logged In By:	Noe Soto
1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 2. Does the number of samples per sampling site location match the COC 2. Wes the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 8. Were all samples received within holding time? 8. To minute hold time, are not included in this discussion. 8. Samule Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(cy received in good condition? 9. Was the sample(cy received initiat, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on it is presented in the received win 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 8 Sample Continer 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip shaft, (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: 8 sample 10° 20. Experimental for COC analyses? 21. Does the COC or field labels indicate the samples were preserved? 22. Are samplesfolor correctly correctly preserved? 23. Lab filteration required and/or requested for dissolved metals? 24. Elab filteration required and/or requested for dissolved metals? 25. Wester and the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the	Email:	chensley@vertexresources.com	Due Date:	12/16/24	17:00 (4 day TAT)		
1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 2. Does the number of samples per sampling site location match the COC 2. Wes the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 8. Were all samples received within holding time? 8. To minute hold time, are not included in this discussion. 8. Samule Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(cy received in good condition? 9. Was the sample(cy received initiat, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on it is presented in the received win 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 8 Sample Continer 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip shaft, (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: 8 sample 10° 20. Experimental for COC analyses? 21. Does the COC or field labels indicate the samples were preserved? 22. Are samplesfolor correctly correctly preserved? 23. Lab filteration required and/or requested for dissolved metals? 24. Elab filteration required and/or requested for dissolved metals? 25. Wester and the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the	Chain af	C					
2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates times, requested analyses? 5. Were all samples received within holding time? 6. Note: Analysis, such as pill which should be conducted in the field, i.e., Is minute hold time, are not included in this disucesion. Sample: Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (so) ecrevized in good condition? 9. Was the sample (so) ecrevized in the field, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample (so) ecrevized in not required, if samples are received vills minutes of sampling 13. If no visible ic, record the temperature. Actual sample temperature: \$\frac{4}{2}C\$ Sample: Ontainer 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6.8 mm (posa sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample IP? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample/go correctly preserved? 23. Land the preservation of the correct containers? 24. Are analysely correctly preserved? 25. An analysely correctly preserved? 26. Does the sample have more than one phase, i.e., multiphase? 27. All band (Fig. included) of the correct containers? 28. An analysely correctly preserved? 39. An analysely correctly preserved? 30. An analysely correctly preserved? 30. An analysely correctly preserved? 30. An analysely correctly preserved? 31. If yes, does the COC specify which phase(s) is to be analyzed? 30. An analysely correctly preserved? 30. An a				***			
3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates'times, requested analyses? 5. Were all samples received within holding time? 6. Did the COC indicate standard TAT, or Expedited TAT? 5. Binulie hold time, are not included in this discussion. 5. Binulie Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 8. Hi fyes, were custody/security seals present? 10. Were custody/security seals present? 10. Were custody/security seals present? 10. Were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°4.2°C 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 15. Ara VOC samples collected in VOA Vislo? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Were field sample labels filled out with the minimum information 19. Bater Time Collected? 20. Were field sample labels filled out with the minimum information 19. Dater Time Collected? 20. Dater Time Collected? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Las sample (so) correctly preserved? 24. Las filled by the correct domainers of the correct containers of the correct correct of the correct containers of t		•	tch the COC				
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as ply which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion. Sample: Turn Around Time CTAT 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler 8. If yes, was cooler received? 9. Was the sample (so received in good condition? 9. Was the sample (so received intact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals present? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received win 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? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pen sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume-weight or number of sample containers collected? 7 Ves Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No. Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No. Sample Preservation 22. Are sample(s) correctly preserved? No. Multiphase Sample have more than one phase, i.e., multiphase? No. Multiphase Sample have more than one phase, i.e., multiphase? No. Multiphase Sample have more than one phase, i.e., multiphase? No. To the sample have more than one phase, i.e., multiphase? No. More than the field of the condendation of the condendation of the sample seed to the condendation of the condendation of the sample seed to the sample have more than one phase, i.e., multiph			ien die COC		c : c		
S. Were all samples received within holding time? Note: Analysis, such say II with should be conducted in the field, i.e., in mine hold time, are not included in this disuession. Sample Turn Around Time CTAT) Or indicate standard TAT, or Expedited TAT? Yes Sample Cooler N. Was a sample cooler received? Nas a sample cooler received in good condition? Seample (s) received intact, i.e., not broken? Note: II. If yes, were custody/security seals present? Note: Thermal preservation is not required, if samples are received wit 15 mines of sampling preservation is not required, if samples are received wit 15 mines of sampling passed space less than 6-8 mm (pea sized or less)? Note: Thermal preservation is not required, if samples are received wit 15 mines of sampling passed space less than 6-8 mm (pea sized or less)? NA 13. Are a queous VOC samples present? NA 14. Are a queous VOC samples present? NA 15. Are non-VOC samples collected in VOA Vials? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes Plate Time Collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Sample Correct field labels indicate the samples were preserved? NA Als label filteration required and/or requested for dissolved metals? Als label filteration required and/or requested for dissolved metals? Na Multiphase Sample bare more than one phase, i.e., multiphase? Na Condent to sample have more than one phase, i.e., multiphase? Na Na Na Na Na Na Na Na Na N		• • •	sted analyses?		Carner: <u>C</u>	<u>courier</u>	
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27. If yes, does the COC specify which phase(s) is to be analyzed? NA			sa?	Na			
			yzcu:	INA			
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	29. Was a	subcontract laboratory specified by the client and it	t so who?	NA	Subcontract Lab	o: NA	
Client Instruction	Client In	struction					

Date

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



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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



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

01/14/2025

Analytical Results For:

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

Received: 01/16/2025 Sampling Date:

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

Applyand By 14

Project Location: NONE GIVEN

Sample ID: BACKFILL - 2 (H250259-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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 whistoever 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

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

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Celeg D. Freene

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: Vertex	x CB; 11 to Devon)	BILL 1	70		ANALYSIS BEOLIEST
Project Manager: Sally	Larttar	P.O. #:		3)	THE COLOR
Address: 3101 Boyd	01.	Company:		IRC	
city: Las 15 back	State: 1/1 Zip: 88220	Attn:		//	
Phone #: 575-361-3561	77	Address:		Ro	
Project #: 246-0491	8 Project Owner:	City:		DI	
project Name: KatHesnake	I	State: Zip:		0/	
roject Location:		Phone #:		-8	
Sampler Name: Kiley	Arnold	Fax #:	(1)	<u>/</u> C	
FOR LAB USE ONLY		PRESERV.	SAMPLING	15 6	
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ASE NOTE: Liability and Damages. Cardinal's lives. All claims including those for negligence are	ASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the years, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 10 flave. The contraction of the	ntract or tort, shall be limited to the amount	paid by the client for the		
after or successors arising out of or related to the slinquished By:	ates or successors arising out of or related to the performance of services hereunder by cardinal, fragardines or wheether such claim is based upon any of the above stated reasons or otherwise. Inquished By: Received By:	ions, loss of use, or loss of profits incurred claim is based upon any of the above stated			
CARL Inquished By:		9	All Results are ema		Add'l Phone #: e Email address:
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mpler - UPS - Bus - Other:	Observed Temp. °C 0 . 4. Sample Condition Cool Intact Corrected Temp. °C 0 . 4. Sample Condition) CHE	Turnaround Time: Thermometer ID #140	Standard Rush	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C
FORW-000 K 3.3 06/03/24	LI NO LI	NO	Correction Factor -0.6°C	c	No No Corrected Temp of

APPENDIX E – Sampling Notification Variance Correspondence



RE: [EXTERNAL] Variance Request - nKJ1600727914, nOY1711838821 Sampling Notification

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

Date Thu 3/13/2025 7:34 AM

To Sally Carttar < SCarttar@vertexresource.com>

Cc Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Caution: This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Sally,

The variance for the 2-business day notification on confirmation samples collected for release numbers **nKJ1600727914** and **nOY1711838821** at the Rattlesnake Federal Unit #001 is approved. I will put a note in "Incident Events" explaining the miscommunication on the wrong incident number. Meanwhile, please complete the notifications on the correct incident numbers.

Regards,

Robert Hamlet • Environmental Specialist - Advanced

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

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, March 12, 2025 4:47 PM

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

Subject: FW: [EXTERNAL] Variance Request - nKJ1600727914, nOY1711838821 Sampling Notification

From: Sally Carttar < SCarttar@vertexresource.com>

Sent: Wednesday, March 12, 2025 3:25 PM

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

Cc: Raley, Jim < <u>Jim.Raley@dvn.com</u>>; Kent Stallings@vertexresource.com>

Subject: [EXTERNAL] Variance Request - nKJ1600727914, nOY1711838821 Sampling Notification

You don't often get email from scarttar@vertexresource.com. Learn why this is important

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

To whom it may concern,

Vertex is requesting a notification variance for confirmation samples collected for release numbers **nKJ1600727914** and **nOY1711838821**at the Rattlesnake Federal Unit #001.

Due to human error, the sampling notification (Submission ID <u>407772</u>) was submitted under an incorrect incident number. However, all other details—including sampling location driving directions and coordinates—were entered correctly and directed observers to the Rattlesnake Federal Unit #001.

For reference, I have attached the original email from December requesting the notification. Details of the sampling event can be found on the <u>notification page</u> on the OCD website.

Best regards,

Sally Carttar

Project Manager

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

C 575.361.3561

www.vertex.ca

[webpage]Connect with LinkedIn

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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 441675

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKJ1600727914
Incident Name	NKJ1600727914 RATTLESNAKE FEDERAL UNIT #001 @ 30-025-36928
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-36928] RATTLESNAKE FEDERAL UNIT #001

Location of Release Source				
Please answer all the questions in this group.				
Site Name	Rattlesnake Federal Unit #001			
Date Release Discovered	12/24/2015			
Surface Owner	Federal			

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 10 BBL Recovered: 7 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 441675

QUESTI	IONS (continued)				
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 441675 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)				
QUESTIONS					
Nature and Volume of Release (continued)					
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.				
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No				
Reasons why this would be considered a submission for a notification of a major release	Unavailable.				
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.				
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.				
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				
	lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.				
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or				
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/13/2025				

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 441675

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 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	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	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 441675

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	T	

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 03/13/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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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 5

Action 441675

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

Phone: (505) 629-6116

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QUESTIONS, Page 6

Action 441675

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	442282
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/05/2024
What was the (estimated) number of samples that were to be gathered	69
What was the sampling surface area in square feet	10445

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. Reclamation report to follow approval

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@dvn.com
Date: 03/13/2025

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 441675

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

CONDITIONS

Action 441675

CONDITIONS

Operator:	OGRID:
Oklahoma City, OK 73102	6137
	Action Number:
	441675
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NKJ1600727914 RATTLESNAKE FEDERAL UNIT #001, thank you. This Remediation Closure Report is approved.	5/9/2025