

Incident Number: nAPP2312834075

Release Assessment and Closure

Shudde 27 CTB Section 18, Township 19 South, Range 26 East Facility ID: fAPP2305374956 County: Eddy Vertex File Number: 23E-04895

Prepared for: Silverback Exploration

Prepared by: Vertex Resource Services Inc.

Date: July 2024

Release Assessment and Closure Shudde 27 CTB Section 26, Township 18 South, Range 26 East Facility ID: fAPP2305374956 County: Eddy

Prepared for: Silverback Exploration 108 South 4th Street Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 – Artesia 811 South 1st Street Artesia, New Mexico 88210

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July 16, 2024

Date

July 16, 2024

Date

Silverback Exploration	Release Assessment and Closure
Shudde 27 CTB	July 2024

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Silverback Exploration

Shudde 27 CTB

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Release Assessment and Closure July 2024

1.0 Introduction

Silverback Exploration (Silverback) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil spill that occurred on April 30, 2023, at Shudde 27 CTB Facility ID: fAPP2305374956 (hereafter referred to as the "site"). Silverback submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on May 8, 2023. Incident ID number nAPP2312834075 was assigned to this incident.

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 deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on April 30, 2023, due to a failure in the generator which cut off supply air to the dump valves on the separator and caused oil to go to the flare. This resulted in a fire that burned off residual fluids and burned areas around the flare system. Immediate notice was given on April 30, 2023, and the volumes of the release were estimated to be <1 barrel (bbl.) of crude oil. No free fluids were recovered but impacted soils were scraped off during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFR) with site photographs are included in Appendix C.

3.0 Site Characteristics

The site is located approximately 8.47 miles south/southeast of Artesia, New Mexico (Google Inc., 2023). The legal location for the site is Section 26, Township 18 South and Range 26 East in Eddy County, New Mexico. The spill area is located on private property. An aerial photograph and site schematic are presented on Figure 1.

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 and storage. The following sections specifically describe the release area surrounding the central tank battery on the constructed pad.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology primarily comprises Qp – Piedmont alluvial deposits (Holocene to lower Pleistocene) which include uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. The predominant soil texture on the site is loam. Soil can be classified as well-drained with a moderate runoff class. There is medium potential for karst geology at the site (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants with elevations ranging between 2,842 and 5,000 feet. The climate is semiarid with average annual

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precipitation ranging between 8 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be alkali sacaton and other mixed shrubs. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad 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 0.24 miles southwest of the site (New Mexico Office of the State Engineer, 2023b). Data from 2023 shows the NMOSE borehole had a recorded groundwater depth of 75ft in 2004. Information pertaining to the depth to ground water determination 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 the Pecos River located approximately 3 miles east of the site (United States Fish and Wildlife Service, 2023).

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.

Shudde 27 CTB

Speci	fic Conditions	Value	Unit	
•	Depth to Groundwater (nearest reference)	75	feet	
		1,292	feet	
1	Distance between release and nearest DTGW reference	0.24	miles	
	Date of nearest DTGW reference measurement	April 20, 2004		
2	Within 300 feet of any continuously flowing watercourse	15,802	feet	
	or any other significant watercourse			
3	Within 200 feet of any lakebed, sinkhole or playa lake	16,917	feet	
	(measured from the ordinary high-water mark)			
4	Within 300 feet from an occupied residence, school,	1,493	feet	
	hospital, institution or church			
	i) Within 500 feet of a spring or a private, domestic fresh	1 202	foot	
5	water well used by less than five households for	1,292	feet	
5	domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or spring	1,292	feet	
	Within incorporated municipal boundaries or within a			
	defined municipal fresh water field covered under a			
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)	
	NMSA 1978 as amended, unless the municipality			
	specifically approves			
7	Within 300 feet of a wetland	17,923	feet	
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered mine	22,321	feet	
			Critical	
			High	
_	Within an unstable area (Karst Map)	Medium	Medium	
9			Low	
	Distance between release and nearest unstable area	15,746	feet	
	Within a 100-year Floodplain	500	year	
10	Distance between release and nearest FEMA Zone A (100-			
	year Floodplain)	5,843	feet	
11	Soil Type	PE: Pima	a silt loam	
12	Ecological Classification	R070BC017N	A - Bottomland	
13	Geology	Qp- Piedmont	alluvial deposits	
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	51-100'	

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Silverback	Exploration
Shudde 27	СТВ

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 Impacted by a Release				
Minimum depth below any point within the horizontal boundary of the release to groundwater less than				
10,000 mg/l TDS	Constituent	Limit		
	Chloride	10,000 mg/kg		
	TPH (GRO+DRO+MRO)	2,500 mg/kg		
51 feet - 100 feet	GRO+DRO	1,000 mg/kg		
	BTEX	50 mg/kg		
	Benzene	10 mg/kg		

TDS – total dissolved solids

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

An initial site inspection of the release area began on September 21, 2023, which identified the area of the release specified in the initial C-141 Report and assessed the contaminant concentrations throughout the flare area. Vertical and horizontal delineation was completed on September 21, 2023. Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons), and Silver Nitrate titration (chlorides). A total of 5 sample points were established in the release area. From these points, 10 samples were collected and submitted to Hall Environmental Analysis Laboratory for laboratory analysis. The main impacted area was determined to be approximately 26 feet long and 28 feet wide; the total affected area was 522 square feet. Field screen and laboratory analysis results are presented in Table 3. The DFR associated with the site inspection is included in Appendix C.

Since laboratory analysis of samples showed to be under applicable criteria, further remediation efforts were not deemed necessary. Exceedances in impacted soils were removed during the initial scrape of the flare area. During this initial scrape, contaminants were scraped off the surface and it was determined that backfill wasn't necessary. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The final DFR with photographs of the remediated site is included in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD on October 31, 2023 and is included in Appendix D. Confirmatory composite samples were collected from the surface of the initial scrape in 200 square foot increments. A total of five 5pt composite samples, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis 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 3, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

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6.0 Closure Request

Vertex recommends no additional remedial actions at the site. Laboratory analyses of confirmation samples collected at the site show final analysis values below NMOCD closure criteria for areas where depth to groundwater is between 51-100 feet bgs and meet the reclamation requirements of 19.15.29.13 NMAC. There are no anticipated risks to human, ecological, or hydrological receptors at this site.

Vertex requests that this incident (nAPP2312834075) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Silverback certifies that all information in this report and the attachments are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the site.

Should you have any questions or concerns, please do not hesitate to contact Fernando Rodriguez at 575.361.4509 or frodriguez@vertex.ca.

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7.0 References

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8.0 Limitations

This report has been prepared for the sole benefit of Silverback Exploration (Silverback). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division without the express written consent of Vertex Resource Services Inc. (Vertex) and Silverback. 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.

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FIGURES

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X Point of Release

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G:I1-Projects_US PROJECTSISIIverback Exploration/23E-04895/Figure 1 Shudde 27 CTB Characterization Sampling Site Schematic (23E-04895).mxd



26'

02

05

04

28'

01

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TABLES

Client Name: Silverback Exploration Site Name: Shudde 27 CTB NMOCD Tracking #: nAPP2312834075 Project #: 23E-04895 Lab Report(sX): 2309D00, 2311280

Table 3. Initial Characterization/Confirmatory Field Screen and Laboratory Results													
Sample Description			Fi	Field Screening Petroleum Hydrocarbons									
			s			Vo	atile			Extractabl	e		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
							Depth to Gr	oundwater	51-100 tee	et bgs			
B1100.04		0/04/0000	I		1	Characteriz	1				L	1	
BH23-01	Oft	9/21/2023	ND	32	340	ND	ND	ND	ND	ND	ND	ND	ND
BH23-01	2ft	9/21/2023	ND	38	363	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	Oft	9/21/2023	ND	25	373	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	2ft	9/21/2023	ND	24	380	ND	ND	ND	ND	ND	ND	ND	ND
BH23-03	Oft	9/21/2023	ND	40	275	ND	ND	ND	ND	ND	ND	ND	ND
BH23-03	2ft	9/21/2023	ND	43	298	ND	ND	ND	ND	ND	ND	ND	ND
BH23-04	Oft	9/21/2023	ND	45	393	ND	ND	ND	ND	ND	ND	ND	ND
BH23-04	2ft	9/21/2023	ND	49	388	ND	ND	ND	ND	ND	ND	ND	ND
BH23-05	Oft	9/21/2023	ND	198	330	ND	ND	ND	10	ND	10	10	130
BH23-05	2ft	9/21/2023	ND	48	378	ND	ND	ND	ND	ND	ND	ND	ND
				-	-	matory San			-	-	-	-	
SS23-01	Oft	11/03/23	ND	54	467	ND	ND	ND	ND	ND	ND	ND	ND
SS23-02	Oft	11/03/23	ND	58	483	ND	ND	ND	ND	ND	ND	ND	ND
SS23-03	Oft	11/03/23	ND	60	508	ND	ND	ND	ND	ND	ND	ND	ND
SS23-04	Oft	11/03/23	ND	45	493	ND	ND	ND	ND	ND	ND	ND	ND
SS23-05	0ft	11/03/23	ND	51	392	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



APPENDIX A - NMOCD C-141 Report

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID		
Contact Name	Contact Telephone		
Contact email	Incident # (assigned by OCD)		
Contact mailing address			

Location of Release Source

Longitude

Latitude		

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

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Incident ID

District RP Facility ID

	Application ID
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	chee given to the CODY Dy whom To whom when and by what means (phone, email, etc).

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature: MArk Ritchis	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

APPENDIX B – Closure Criteria Research Documentation

	riteria Determination		
	e: Shudde 27 CTB		
Ţ	dinates: 32.723030, -104.360338	X: 559941	Y: 3620764
	Closure Criteria Determination		
Site Spec	ific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	75	feet
1	Distance between release and nearest DTGW reference	1,292 0.24	feet miles
	Date of nearest DTGW reference measurement		20, 2004
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	15,802	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	16,917	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,493	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 	1,292	feet
	ii) Within 1000 feet of any fresh water well or spring	1,292	feet
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	17,923	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	22,321	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	15,746	feet
	Within a 100-year Floodplain	500	year
10	Distance between release and nearest FEMA Zone A (100- year Floodplain)	5,843	feet
11	Soil Type	PE: Pim	a silt loam
12	Ecological Classification	R070BC017N	M - Bottomland
13	Geology	Qp- Piedmont	t alluvial deposits
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replace O=orphaned, C=the file is		· •						3=SW 4=SE	,	()			
water right file.)	closed) POD		(qua	rter	s a	re sr	nalles	st to lar	gest) (N	AD83 UTM in me	eters)	(1	In feet)	
	Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin		y 64						Х	Y	Distance			Column
RA 10490	RA	ED		4			18S		559659	3620486* 🌍	395	200	75	125
RA 11890 POD1	RA	ED	1	1	4	28	18S	26E	559161	3620210 🌍	956	175	85	90
RA 01881	RA	ED		3	3	26	18S	26E	560060	3619681* 🌍	1089	2450		
RA 03055	RA	ED	1	2	1	27	18S	26E	558757	3620986* 🌍	1204	146	85	61
RA 01296	RA	ED	3	3	1	23	18S	26E	559954	3622001* 🌍	1237	180	80	100
RA 01144 -S	RA	СН		3	1	23	18S	26E	560055	3622102* 🌍	1342	809		
RA 04003	RA	ED	3	3	4	27	18S	26E	559161	3619578* 🌍	1419	100		
RA 09437	RA	ED	3	3	4	27	18S	26E	559161	3619578* 🌍	1419	120	60	60
RA 07242 EXP	RA	ED		3	4	26	18S	26E	560863	3619682* 🌍	1421	102	55	47
RA 07243 EXP	RA	ED		3	4	26	18S	26E	560863	3619682* 🌍	1421	110	50	60
RA 07219	RA	ED			4	26	18S	26E	561064	3619883* 🌍	1427	110	50	60
RA 01296 CLW229885	O RA	ED	1	3	1	23	18S	26E	559954	3622201* 🌍	1437	180	70	110
RA 04018	RA	СН	3	3	4	26	18S	26E	560762	3619581* 🌍	1439	250		
RA 04022	RA	СН		2	1	35	18S	26E	560465	3619281* 🌍	1572	520		
RA 09874	RA	ED		2	1	35	18S	26E	560465	3619281* 🌍	1572	150		
RA 04701	RA	ED		3	3	22	18S	26E	558456	3621290* 🌍	1575	80	55	25
RA 03598	RA	ED	1	3	2	22	18S	26E	559154	3622198* 🌍	1635	1815		
RA 06979	RA	ED		1	1	25	18S	26E	561660	3620896* 🌍	1724	100		
RA 11506 POD1	RA	ED	1	3	3	22	18S	26E	558290	3621345 🌍	1750	160	78	82
RA 11952 POD1	RA	ED	4	2	2	28	18S	26E	558153	3620727 🌍	1787	170	90	80
RA 03771	RA	ED	3	1	3	22	18S	26E	558354	3621592* 🌍	1790	110	75	35
RA 09374	RA	ED	2	1	1	25	18S	26E	561759	3620995* 🌍	1832	101		
RA 02627	RA	ED	1	2	2	35	18S	26E	561169	3619382* 🌍	1848	75	40	35
RA 12961 POD1	RA	ED	4	3	3	27	18S	26E	558578	3619477 🌍	1874	215	180	35
RA 07408	RA	ED	2	4	4	21	18S	26E	558152	3621389* 🌍	1895	155	85	70
RA 11784 POD1	RA	ED	1	2	2	22	18S	26E	559480	3622632 🌍	1924	154	98	56
*UTM location was derived f	from PLSS - see	Help												

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New Mexico Office of the State Engineer Point of Diversion Summary

			(1				=SW 4=SI	,					
				(quarters are smallest to largest)							(NAD83 UTM in meters)		
Well Tag	POD Nun	nber	Q64	Q16 Q4	1 Sec	: Tws	s Rng		Х		Y		
	RA 1049	0		4 2	27	185	5 26E	559	659	362048	36* 🍯	>	
Driller Licens	se: 1229		Driller C	ompan	y : C	ARTE	ER'S WE	ELL DR	ILLI	NG			
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*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.

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Revised June 1972

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Section 6. LOG OF HOLE								
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Miland Carte Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



U.S. Fish and Wildlife Service National Wetlands Inventory

Shudde 27 CTB Watercourse



September 20, 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.

7/20/2024 12.00.17 AM Received by OCD

U.S. Fish and Wildlife Service National Wetlands Inventory

Shudde 27 CTB Lake



September 20, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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- Freshwater Forested/Shrub Wetland

Freshwater Emergent 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.

National Wetlands Inventory (NWI) This page was produced by the NWI mapper





New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(R-POD has been replaced

(with Ownership Information)

					es this file, (quarters are 1=NW 2=NE 3=SW		
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*UTM location was derived from PLSS - see Help

U.S. Fish and Wildlife Service National Wetlands Inventory

Shudde 27 CTB Wetland



September 20, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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- 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.

Shudde 27 CTB Mine



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PLSS First Division	

EMNRD MMD GIS Coordinator



National Flood Hazard Layer FIRMette



Legend

Page 34 of 106



Basemap Imagery Source: USGS National Map 2023



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

USDA Natural Resources Conservation Service Released to Imaging: 8/15/2024 2:46:45 PM Web Soil Survey National Cooperative Soil Survey 9/20/2023 Page 1 of 3

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USDA Natural Resources Conservation Service Released to Imaging: 8/15/2024 2:46:45 PM
Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI	
Pe Pima silt loam, 0 to 1 percent slopes		4.4	64.5%	
Rc	Reagan loam, 0 to 1 percent slopes	2.4	35.5%	
Totals for Area of Interest		6.8	100.0%	





United States Department of Agriculture

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 Eddy Area, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic classes has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

.

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



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Custom Soil Resource Report

MA	P LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AC Soils Soil Map Unit Polyg	Very Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000. Warning: Soil Map may not be valid at this scale.
Soil Map Unit Forg Soil Map Unit Lines Soil Map Unit Points Special Point Features Blowout		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.
 Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot 	Transportation H Rails US Routes Major Roads	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)
 Landfill Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Wate 	Local Roads Background Aerial Photography	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.
 Perennial Water Rock Outcrop Saline Spot Sandy Spot 		This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022 Soil map units are labeled (as space allows) for map scales 1.50,000 or larger
 Severely Eroded Sp Sinkhole Slide or Slip Sodic Spot 	ot	1:50,000 or larger. Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background
		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 (Shudde 27 CTB)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Pe	Pima silt loam, 0 to 1 percent slopes	4.4	64.5%
Rc	Reagan loam, 0 to 1 percent slopes	2.4	35.5%
Totals for Area of Interest		6.8	100.0%

Map Unit Descriptions (Shudde 27 CTB)

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.

Eddy Area, New Mexico

Pe—Pima silt loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w58 Elevation: 600 to 4,200 feet Mean annual precipitation: 8 to 25 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 195 to 290 days Farmland classification: Prime farmland if irrigated

Map Unit Composition

Pima and similar soils: 98 percent *Minor components:* 2 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Pima

Setting

Landform: Flood plains, alluvial flats, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear, convex Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam H2 - 3 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R070BC017NM - Bottomland Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy *Hydric soil rating:* No

Dev

Percent of map unit: 1 percent *Ecological site:* R070BC017NM - Bottomland *Hydric soil rating:* No

Rc-Reagan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5l Elevation: 1,100 to 5,300 feet Mean annual precipitation: 7 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 97 percent Minor components: 3 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam *H2 - 8 to 82 inches:* loam

Properties and qualities

Slope: 0 to 1 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
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6c Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Upton

Percent of map unit: 1 percent Ecological site: R070BC025NM - Shallow Hydric soil rating: No

Reeves

Percent of map unit: 1 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

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USDA Natural Resources Conservation Service Released to Imaging: 8/15/2024 2:46:45 PM Web Soil Survey National Cooperative Soil Survey 9/20/2023 Page 1 of 3

MAP LEGEND	MAP INFORMATION
Area of Interest (AOI)	The soil surveys that comprise your AOI were mapped at
Area of Interest (AOI)	1:20,000.
Soils	Warning: Soil Map may not be valid at this scale.
Soil Rating Polygons	Enlargement of maps beyond the scale of mapping can cause
R070BC007NM	misunderstanding of the detail of mapping and accuracy of soil
R070BC017NM	line placement. The maps do not show the small areas of
Not rated or not available	contrasting soils that could have been shown at a more detailed scale.
Soil Rating Lines	
R070BC007NM	Please rely on the bar scale on each map sheet for map measurements.
R070BC017NM	
Not rated or not available	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
	Coordinate System: Web Mercator (EPSG:3857)
Soil Rating Points	Maps from the Web Soil Survey are based on the Web Mercat
R070BC007NM	projection, which preserves direction and shape but distorts
R070BC017NM	distance and area. A projection that preserves area, such as the
Not rated or not available	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
Water Features	
Streams and Canals	This product is generated from the USDA-NRCS certified data of the version date(s) listed below.
Transportation	Soil Survey Area: Eddy Area, New Mexico
HH Rails	Survey Area Data: Version 18, Sep 8, 2022
Minterstate Highways	Soil map units are labeled (as space allows) for map scales
JS Routes	1:50,000 or larger.
🛹 Major Roads	Date(s) aerial images were photographed: Nov 12, 2022—De
Local Roads	2, 2022
	The orthophoto or other base map on which the soil lines were
Background	compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor

•

All Ecological Sites —

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
Pe	Pima silt loam, 0 to 1 percent slopes	Pima (98%)	R070BC017NM — Bottomland	4.4	64.5%
		Dev (1%)	R070BC017NM — Bottomland	-	
		Reagan (1%)	R070BC007NM — Loamy		
Rc	Reagan loam, 0 to 1 percent slopes	Reagan (97%)	R070BC007NM — Loamy	2.4	35.5%
		Reagan (1%)	R070BC007NM — Loamy		
		Reeves (1%)	R070BC007NM — Loamy		
		Upton (1%)	R070BC025NM — Shallow		
Totals for Area of Ir	nterest			6.8	100.0%



Shudde 27 CTB Geology





APPENDIX C – Daily Field Report with Photographs



Client:	Silverback Exploration	Inspection Date:	9/21/2023
Site Location Name:	Shudde 27 CTB	Report Run Date:	9/21/2023 9:30 PM
Client Contact Name:	Mark Ritchie	API #:	
Client Contact Phone #:	713-553-8320		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Гimes
Arrived at Site	9/21/2023 8:00 AM		
Departed Site	9/21/2023 10:30 AM		
		Field Note	25

8:16 Arrived at location and filled out safety paperwork. On site to characterize the release around the flare area. Will start by collecting a borehole for each cardinal direction and one vertical in the middle.

10:22 Collected five boreholes at Oft and 2ft bgs. Labeled them as BH23-01, 02, 03, 04, and 05 @ 0 & 2ft. Field screened them for chlorides and TPH. All samples tested under the applicable criteria. Placed samples into glass jars and will send in for laboratory analysis.

Next Steps & Recommendations

1



Site Photos Viewing Direction: North Viewing Direction: West BH23-01 @ 0-2ft BH23-02 @ 0-2ft Viewing Direction: South Viewing Direction: East BH23-03 @ 0-2ft BH23-04 @ 0-2ft







Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:

.



Client:	Silverback Exploration	Inspection Date:	11/3/2023
Site Location Name:	Shudde 27 CTB	Report Run Date:	11/3/2023 6:28 PM
Client Contact Name:	Mark Ritchie	API #:	
Client Contact Phone #:	713-553-8320		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	limes
Arrived at Site	11/3/2023 7:30 AM		
Departed Site	11/3/2023 10:30 AM		
		Field Note	2S

7:59 Arrived at location and filled out safety paperwork. On site to collect confirmatory samples around the flare area. Will field screen them for chlorides and TPH.

10:29 Collected a total of five surface samples from the flare area. Field screened soil samples for chlorides and TPH. All samples tested under applicable criteria. Placed samples into glass jars and will send in for laboratory analysis. Added sample points to Field Maps and DSS.

Next Steps & Recommendations

1



Site Photos Viewing Direction: Northwest Viewing Direction: Northeast Overview of sampling area Overview of sampling area Viewing Direction: Southwest Viewing Direction: Southeast Overview of sampling area Overview of sampling area



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:

Run on 11/3/2023 6:28 PM UTC

.

APPENDIX D – Notification

RE: [EXTERNAL] 48-Hour Notification - Shudde 27 CTB

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Tue 10/31/2023 1:36 PM

To:Dhugal Hanton <vertexresourcegroupusa@gmail.com> Cc:cdixon@vertex.ca <cdixon@vertex.ca>;mritchie@silverbackexp.com <mritchie@silverbackexp.com>;Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>;Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Hi Fernando,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

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

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Tuesday, October 31, 2023 12:45 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: cdixon@vertex.ca; mritchie@silverbackexp.com
Subject: [EXTERNAL] 48-Hour Notification - Shudde 27 CTB

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

Shelly,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

Shudde 27 CTB, nAPP2312834075

Confirmation sampling is scheduled to begin Friday, November 3, 2023, at approximately 8:00 a.m. and will continue through Saturday, November 4, 2023. If you have any questions regarding this notification, please contact 575-361-4509.

Thanks,

Fernando Rodriguez B.Sc

Intermediate Biologist

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

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



October 04, 2023

Mike Moffit Silverback Exploration 19707 IH10 W Suit 201 San Antonio, TX 78257 TEL: (210) 585-3316 FAX:

RE: Shudde 27 CTB

OrderNo.: 2309D00

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Mike Moffit:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/23/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report Lab Order 2309D00

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/4/2023

Client Sample ID: BH23-01 Oft Collection Date: 9/21/2023 9:00:00 AM **Received Date:** 0/23/2023 7:20:00 AM

Lab ID: 2309D00-001	Matrix: SOIL Received Date: 9/23/2023 7:20:00			023 7:20:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/26/2023 2:22:39 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2023 2:22:39 PM
Surr: DNOP	100	69-147	%Rec	1	9/26/2023 2:22:39 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/26/2023 10:02:00 PM
Surr: BFB	97.9	15-244	%Rec	1	9/26/2023 10:02:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/26/2023 10:02:00 PM
Toluene	ND	0.049	mg/Kg	1	9/26/2023 10:02:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/26/2023 10:02:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/26/2023 10:02:00 PM
Surr: 4-Bromofluorobenzene	88.4	39.1-146	%Rec	1	9/26/2023 10:02:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	9/26/2023 9:29:18 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
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

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Project:

CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309D00

Date Reported: 10/4/2023

Client Sample ID: BH23-01 2ft Collection Date: 9/21/2023 9:05:00 AM Received Date: 9/23/2023 7:20:00 AM

Lab ID: 2309D00-002	Matrix: SOIL	Received Date: 9/23/2023 7:20:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/26/2023 2:55:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2023 2:55:40 PM
Surr: DNOP	94.8	69-147	%Rec	1	9/26/2023 2:55:40 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/26/2023 11:07:00 PM
Surr: BFB	99.3	15-244	%Rec	1	9/26/2023 11:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/26/2023 11:07:00 PM
Toluene	ND	0.050	mg/Kg	1	9/26/2023 11:07:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/26/2023 11:07:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/26/2023 11:07:00 PM
Surr: 4-Bromofluorobenzene	91.2	39.1-146	%Rec	1	9/26/2023 11:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	9/26/2023 9:41:43 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

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

RL

Page 2 of 14

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CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309D00

Date Reported: 10/4/2023

Client Sample ID: BH23-02 Oft Collection Date: 9/21/2023 9:10:00 AM

Matrix: SOIL	Rece	eived Date:	9/23/2	023 7:20:00 AM
Result	RL Qu	al Units	DF	Date Analyzed
NGE ORGANICS				Analyst: PRD
ND	9.6	mg/Kg	1	9/26/2023 3:06:56 PM
ND	48	mg/Kg	1	9/26/2023 3:06:56 PM
97.4	69-147	%Rec	1	9/26/2023 3:06:56 PM
ANGE				Analyst: KMN
ND	4.8	mg/Kg	1	9/27/2023 12:12:00 AM
99.7	15-244	%Rec	1	9/27/2023 12:12:00 AM
				Analyst: KMN
ND	0.024	mg/Kg	1	9/27/2023 12:12:00 AM
ND	0.048	mg/Kg	1	9/27/2023 12:12:00 AM
ND	0.048	mg/Kg	1	9/27/2023 12:12:00 AM
ND	0.095	mg/Kg	1	9/27/2023 12:12:00 AM
89.6	39.1-146	%Rec	1	9/27/2023 12:12:00 AM
				Analyst: RBC
ND	60	mg/Kg	20	9/26/2023 9:54:07 PM
	Result NGE ORGANICS ND 97.4 ANGE ND 99.7 ND ND ND ND ND 89.6	Result RL Qu NGE ORGANICS ND 9.6 ND 48 97.4 69-147 ANGE ND 4.8 99.7 15-244 ND 0.024 ND 0.048 ND 0.048 ND 0.095 89.6 39.1-146 39.1-146	Result RL Qual Units NGE ORGANICS ND 9.6 mg/Kg ND 48 mg/Kg 97.4 69-147 %Rec ANGE ND 4.8 mg/Kg ND 4.8 mg/Kg 99.7 15-244 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.095 mg/Kg 89.6 39.1-146 %Rec	Result RL Qual Units DF NGE ORGANICS ND 9.6 mg/Kg 1 ND 48 mg/Kg 1 97.4 69-147 %Rec 1 ANGE ND 4.8 mg/Kg 1 99.7 15-244 %Rec 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.095 mg/Kg 1 ND 0.095 mg/Kg 1 ND 0.095 mg/Kg 1

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

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Lab ID:

CLIENT: Silverback Exploration

Shudde 27 CTB

2309D00-004

Analytical Report Lab Order 2309D00

Date Reported: 10/4/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-02 2ft Collection Date: 9/21/2023 9:15:00 AM Received Date: 9/23/2023 7:20:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/26/2023 3:18:15 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/26/2023 3:18:15 PM
Surr: DNOP	90.9	69-147	%Rec	1	9/26/2023 3:18:15 PM
EPA METHOD 8015D: GASOLINE RANGE	i i				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/27/2023 12:34:00 AM
Surr: BFB	99.1	15-244	%Rec	1	9/27/2023 12:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/27/2023 12:34:00 AM
Toluene	ND	0.049	mg/Kg	1	9/27/2023 12:34:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/27/2023 12:34:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/27/2023 12:34:00 AM
Surr: 4-Bromofluorobenzene	89.5	39.1-146	%Rec	1	9/27/2023 12:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	9/26/2023 10:06:31 PM

Matrix: SOIL

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
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 4 of 14

Analytical Report Lab Order 2309D00

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/4/2023 Client Sample ID: BH23-03 Off

CLIENT: Silverback Exploration		Client S	ample ID:	BH23-	-03 Oft
Project: Shudde 27 CTB		Collec	tion Date:	9/21/2	023 9:20:00 AM
Lab ID: 2309D00-005	Matrix: SOIL	Rece	ived Date:	9/23/2	023 7:20:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/26/2023 3:29:33 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2023 3:29:33 PM
Surr: DNOP	94.6	69-147	%Rec	1	9/26/2023 3:29:33 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/27/2023 12:56:00 AM
Surr: BFB	98.1	15-244	%Rec	1	9/27/2023 12:56:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/27/2023 12:56:00 AM
Toluene	ND	0.047	mg/Kg	1	9/27/2023 12:56:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/27/2023 12:56:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	9/27/2023 12:56:00 AM
Surr: 4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	9/27/2023 12:56:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/27/2023 7:17:41 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

н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 14

CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report Lab Order 2309D00

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/4/2023

Client Sample ID: BH23-03 2ft Collection Date: 9/21/2023 9:25:00 AM Received Date: 9/23/2023 7:20:00 AM

Lab ID: 2309D00-006	Matrix: SOIL	Rece	ived Date:	9/23/2	023 7:20:00 AM
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/26/2023 3:40:51 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/26/2023 3:40:51 PM
Surr: DNOP	98.8	69-147	%Rec	1	9/26/2023 3:40:51 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/27/2023 1:17:00 AM
Surr: BFB	96.1	15-244	%Rec	1	9/27/2023 1:17:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/27/2023 1:17:00 AM
Toluene	ND	0.048	mg/Kg	1	9/27/2023 1:17:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/27/2023 1:17:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	9/27/2023 1:17:00 AM
Surr: 4-Bromofluorobenzene	85.7	39.1-146	%Rec	1	9/27/2023 1:17:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/27/2023 7:30:05 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

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 6 of 14

CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309D00

Date Reported: 10/4/2023

Client Sample ID: BH23-04 Oft Collection Date: 9/21/2023 9:30:00 AM

Matrix: SOIL	Rece	eived Date:	9/23/2	.023 7:20:00 AM
Result	RL Qu	al Units	DF	Date Analyzed
ORGANICS				Analyst: PRD
ND	9.6	mg/Kg	1	9/26/2023 3:52:09 PM
ND	48	mg/Kg	1	9/26/2023 3:52:09 PM
96.1	69-147	%Rec	1	9/26/2023 3:52:09 PM
E				Analyst: KMN
ND	4.8	mg/Kg	1	9/27/2023 1:39:00 AM
97.8	15-244	%Rec	1	9/27/2023 1:39:00 AM
				Analyst: KMN
ND	0.024	mg/Kg	1	9/27/2023 1:39:00 AM
ND	0.048	mg/Kg	1	9/27/2023 1:39:00 AM
ND	0.048	mg/Kg	1	9/27/2023 1:39:00 AM
ND	0.096	mg/Kg	1	9/27/2023 1:39:00 AM
87.2	39.1-146	%Rec	1	9/27/2023 1:39:00 AM
				Analyst: KCB
ND	60	mg/Kg	20	9/27/2023 7:42:30 AM
	Result CORGANICS ND 96.1 E ND 97.8 ND 97.8 ND ND ND ND ND ND ND ND ND ND	Result RL Qu : ORGANICS ND 9.6 ND 48 96.1 69-147 E ND 4.8 97.8 15-244 ND 0.024 ND 0.048 ND 0.048 ND 0.096 87.2 39.1-146 39.1-146	Result RL Qual Units Image: Sorganics ND 9.6 mg/Kg ND 48 mg/Kg 96.1 69-147 %Rec E ND 4.8 mg/Kg 97.8 15-244 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.096 mg/Kg 87.2 39.1-146 %Rec	Result RL Qual Units DF : ORGANICS ND 9.6 mg/Kg 1 ND 48 mg/Kg 1 96.1 69-147 %Rec 1 97.8 15-244 %Rec 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.096 mg/Kg 1 ND 0.096 mg/Kg 1 ND 0.391-146 %Rec 1

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

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 14

CLIENT: Silverback Exploration

Project: Shudde 27 CTB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309D00

Date Reported: 10/4/2023

Client Sample ID: BH23-04 2ft Collection Date: 9/21/2023 9:35:00 AM Received Date: 9/23/2023 7:20:00 AM

Lab ID: 2309D00-008	Matrix: SOIL	Rece	eived Date:	9/23/2	2023 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/26/2023 4:03:27 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/26/2023 4:03:27 PM
Surr: DNOP	101	69-147	%Rec	1	9/26/2023 4:03:27 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/27/2023 2:01:00 AM
Surr: BFB	99.6	15-244	%Rec	1	9/27/2023 2:01:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/27/2023 2:01:00 AM
Toluene	ND	0.050	mg/Kg	1	9/27/2023 2:01:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/27/2023 2:01:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	9/27/2023 2:01:00 AM
Surr: 4-Bromofluorobenzene	88.0	39.1-146	%Rec	1	9/27/2023 2:01:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/27/2023 7:54:54 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
- RL R

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CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309D00

Date Reported: 10/4/2023

Client Sample ID: BH23-05 Oft Collection Date: 9/21/2023 9:40:00 AM **Received Date:** 0/23/2023 7:20:00 AM

Lab ID: 2309D00-009	Matrix: SOIL	Rece	eived Date:	9/23/2	2023 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	10	9.7	mg/Kg	1	9/26/2023 4:25:43 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2023 4:25:43 PM
Surr: DNOP	96.9	69-147	%Rec	1	9/26/2023 4:25:43 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/27/2023 2:23:00 AM
Surr: BFB	102	15-244	%Rec	1	9/27/2023 2:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/27/2023 2:23:00 AM
Toluene	ND	0.048	mg/Kg	1	9/27/2023 2:23:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/27/2023 2:23:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	9/27/2023 2:23:00 AM
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	9/27/2023 2:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	130	60	mg/Kg	20	9/27/2023 8:07:18 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
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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CLIENT: Silverback Exploration

Shudde 27 CTB

Analytical Report Lab Order 2309D00

Date Reported: 10/4/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-05 2ft Collection Date: 9/21/2023 9:45:00 AM

Lab ID: 2309D00-010	Matrix: SOIL	Rece	eived Date:	9/23/2	023 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/26/2023 4:52:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2023 4:52:54 PM
Surr: DNOP	92.2	69-147	%Rec	1	9/26/2023 4:52:54 PM
EPA METHOD 8015D: GASOLINE	RANGE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/27/2023 2:44:00 AM
Surr: BFB	99.6	15-244	%Rec	1	9/27/2023 2:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/27/2023 2:44:00 AM
Toluene	ND	0.046	mg/Kg	1	9/27/2023 2:44:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	9/27/2023 2:44:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	9/27/2023 2:44:00 AM
Surr: 4-Bromofluorobenzene	88.0	39.1-146	%Rec	1	9/27/2023 2:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/27/2023 8:19:43 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

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 14

Client: Project:		erback Exploration Ide 27 CTB								
Sample ID:	MB-77772	SampType: M	BLK	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch ID: 77	772	F	RunNo: 10	00018				
Prep Date:	9/26/2023	Analysis Date: 9/	26/2023	S	SeqNo: 36	59446	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-77772	SampType: LC	S	Tes	tCode: EF	A Method	300.0: Anions	5		
Client ID:	LCSS	Batch ID: 77	772	F	RunNo: 10	00018				
Prep Date:	9/26/2023	Analysis Date: 9/	26/2023	S	SeqNo: 36	59447	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.2	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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2309D00

04-Oct-23

Client:	Silverback	-	ion								
Project:	Shudde 27	7 CTB									
Sample ID:	2309D00-001AMS	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BH23-01 0ft	Batch	ID: 777	762	F	RunNo: 10	00003				
Prep Date:	9/26/2023	Analysis D	ate: 9/2	26/2023	5	SeqNo: 3	658184	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	53	10	49.85	0	106	54.2	135			
Surr: DNOP		4.8		4.985		95.4	69	147			
Sample ID:	2309D00-001AMSD	SampT	ype: MS	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BH23-01 0ft	Batch	ID: 777	762	F	RunNo: 10	00003				
Prep Date:	9/26/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658186	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	50	9.8	49.02	0	103	54.2	135	4.54	29.2	
Surr: DNOP		4.5		4.902		91.7	69	147	0	0	
Sample ID:	LCS-77762	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 777	762	F	RunNo: 10	00003				
Prep Date:	9/26/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658233	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	48	10	50.00	0	96.1	61.9	130			
Surr: DNOP		4.6		5.000		91.4	69	147			
Sample ID:	MB-77762	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 777	762	F	RunNo: 10	00003				
Prep Date:	9/26/2023	Analysis D	ate: 9/2	26/2023	S	SeqNo: 3	658241	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	ND	10								
•	e Organics (MRO)	ND	50								
Surr: DNOP		9.2		10.00		91.7	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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2309D00

04-Oct-23

Client: Project:	Silverback Shudde 27	-	ion								
Sample ID:	lcs-77741	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Range	1	
Client ID:	LCSS	Batch	ID: 777	741	F	RunNo: 1	00014				
Prep Date:	9/25/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658960	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	90.4	70	130			
Surr: BFB		2200		1000		216	15	244			
Sample ID:	mb-77741	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: 777	741	F	RunNo: 1	00014				
Prep Date:	9/25/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658961	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								
Surr: BFB		970		1000		97.5	15	244			
Sample ID:	2309D00-001ams	SampT	уре: МS	6	Tes	tCode: El	PA Method	8015D: Gaso	line Range	!	
Client ID:	BH23-01 Oft	Batch	ID: 777	741	F	RunNo: 1	00014				
Prep Date:	9/25/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658963	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	4.9	24.46	0	91.3	70	130			
Surr: BFB		2100		978.5		219	15	244			
Sample ID:	2309D00-001amsd	SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Range	1	
Client ID:	BH23-01 0ft	Batch	ID: 777	741	F	RunNo: 1	00014				
Prep Date:	9/25/2023	Analysis D	ate: 9/ 2	26/2023	S	SeqNo: 3	658964	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	4.9	24.41	0	94.2	70	130	2.87	20	
Surr: BFB		2300		976.6		234	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

2309D00

04-Oct-23

Client:	Silverback	c Explora	tion								
Project:	Shudde 27	7 CTB									
Sample ID:	100 77744	Sama	Туре: LC	6	Too	tCodo: EF	A Mothed	8021B: Volati			
-	LCSS		h ID: 777						ies		
						RunNo: 10			·		
Prep Date:	9/25/2023	Analysis [Jate: 9/2	26/2023	2	SeqNo: 36	59114	Units: mg/K	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85	0.025	1.000	0	84.8	70	130			
Toluene		0.85	0.050	1.000	0	85.3	70	130			
Ethylbenzene		0.87	0.050	1.000	0	87.2	70	130			
Xylenes, Total		2.6	0.10	3.000	0	87.0	70	130			
Surr: 4-Brom	ofluorobenzene	0.88		1.000		88.2	39.1	146			
Sample ID:	mb-77741	Samp	Туре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	PBS	Batc	h ID: 777	741	F	RunNo: 10	0014				
Prep Date:	9/25/2023	Analysis [Date: 9/2	26/2023	S	SeqNo: 36	59115	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-Brom	ofluorobenzene	0.88		1.000		87.7	39.1	146			
	ofluorobenzene 2309D00-002ams		Type: MS		Tes			146 8021B: Volati	iles		
		Samp	Type: MS h ID: 777	;			A Method		iles		
Sample ID:	2309D00-002ams	Samp	h ID: 777	741	F	tCode: EF	PA Method 00014				
Sample ID: Client ID:	2309D00-002ams BH23-01 2ft	Samp ⁻ Batc	h ID: 777	741	F	tCode: EF RunNo: 10	PA Method 00014	8021B: Volati		RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte	2309D00-002ams BH23-01 2ft	Samp ⁻ Batc Analysis [h ID: 777 Date: 9/ 2	5 741 26/2023	F	tCode: EF RunNo: 10 SeqNo: 36	PA Method 10014 159118	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene	2309D00-002ams BH23-01 2ft	Samp Batc Analysis I Result	h ID: 777 Date: 9/ 2 PQL	7 41 26/2023 SPK value	F S SPK Ref Val	tCode: EF RunNo: 10 SeqNo: 36 %REC	PA Method 00014 559118 LowLimit	8021B: Volati Units: mg/K HighLimit	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2309D00-002ams BH23-01 2ft	Samp Batc Analysis I Result 0.89	h ID: 777 Date: 9/2 PQL 0.025	7 41 26/2023 SPK value 0.9921	F SPK Ref Val 0	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8	PA Method 00014 559118 LowLimit 70	8021B: Volati Units: mg/K HighLimit 130	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	2309D00-002ams BH23-01 2ft	Samp Batc Analysis I Result 0.89 0.92	h ID: 777 Date: 9/2 PQL 0.025 0.050	7 41 26/2023 SPK value 0.9921 0.9921	F SPK Ref Val 0 0	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6	24 Method 00014 559118 LowLimit 70 70	8021B: Volati Units: mg/K HighLimit 130 130	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2309D00-002ams BH23-01 2ft	Samp Batc Analysis I Result 0.89 0.92 0.94	h ID: 777 Date: 9/2 PQL 0.025 0.050 0.050	741 26/2023 SPK value 0.9921 0.9921 0.9921	F SPK Ref Val 0 0 0	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6 94.5	24 Method 00014 559118 LowLimit 70 70 70 70	8021B: Volati Units: mg/K HighLimit 130 130 130	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	2309D00-002ams BH23-01 2ft 9/25/2023	Samp Batc Analysis I Result 0.89 0.92 0.94 2.8 0.90	h ID: 777 Date: 9/2 PQL 0.025 0.050 0.050	741 26/2023 SPK value 0.9921 0.9921 0.9921 2.976 0.9921	F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6 94.5 94.7 91.1	PA Method 00014 559118 LowLimit 70 70 70 70 39.1	8021B: Volati Units: mg/K HighLimit 130 130 130 130	g %RPD	RPDLimit	Qual
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Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	2309D00-002ams BH23-01 2ft 9/25/2023 ofluorobenzene 2309D00-002amsd	Samp Batc Analysis I Result 0.89 0.92 0.94 2.8 0.90 Samp	h ID: 777 Date: 9/2 PQL 0.025 0.050 0.050 0.099 Type: MS h ID: 777	741 26/2023 SPK value 0.9921 0.9921 0.9921 2.976 0.9921 5D 741	F SPK Ref Val 0 0 0 0 Tes F	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6 94.5 94.7 91.1 tCode: EF	24 Method 00014 559118 LowLimit 70 70 70 70 39.1 24 Method 00014	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146	g %RPD	RPDLimit	Qual
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Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	2309D00-002ams BH23-01 2ft 9/25/2023 nofluorobenzene 2309D00-002amsd BH23-01 2ft	Samp Batc Analysis I Result 0.89 0.92 0.94 2.8 0.90 Samp Batc Analysis I Result	h ID: 777 Date: 9/2 PQL 0.025 0.050 0.050 0.099 Type: MS h ID: 777 Date: 9/2 PQL	741 26/2023 SPK value 0.9921 0.9921 2.976 0.9921 3.0 5D 741 26/2023 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6 94.5 94.7 91.1 tCode: EF RunNo: 10 SeqNo: 36 %REC	24 Method 00014 559118 LowLimit 70 70 70 39.1 24 Method 00014 559119 LowLimit	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	9 %RPD iles 9 %RPD	RPDLimit	
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Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2309D00-002ams BH23-01 2ft 9/25/2023 nofluorobenzene 2309D00-002amsd BH23-01 2ft	Samp Batc Analysis I Result 0.89 0.92 0.94 2.8 0.90 Samp Batc Analysis I Result 0.90 0.93	h ID: 777 Date: 9/2 0.025 0.050 0.050 0.099 Type: MS h ID: 777 Date: 9/2 PQL 0.025 0.050	741 26/2023 SPK value 0.9921 0.9921 0.9921 2.976 0.9921 5D 741 26/2023 SPK value 0.9940 0.9940 0.9940	F SPK Ref Val 0 0 0 0 Tes 5 SPK Ref Val 0 0	tCode: EF RunNo: 10 SeqNo: 36 %REC 89.8 92.6 94.5 94.7 91.1 tCode: EF RunNo: 10 SeqNo: 36 %REC 91.0 93.2	PA Method 00014 559118 LowLimit 70 70 70 39.1 PA Method 00014 559119 LowLimit 70 70 70 70 39.1	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130 130	g %RPD les %RPD 1.51 0.843	RPDLimit 20 20	

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

2309D00

04-Oct-23

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Client Name:	Silverback	Exploration	Work	Order Numb	er: 230	9D00		ſ	RcptNo:	1	-
Received By: Completed By: Reviewed By:	Juan Roja Juan Roja			123 7:20:00 A 123 7:28:32 A L3			Heaven &	g			
Chain of Cus											
1. Is Chain of C	• •				Yes		No 🗹	Not Preser	nt 🗌		
2. How was the	sample deliv	ered?			<u>Cou</u>	rier					
Log In 3. Was an atter	npt made to c	ool the samp	les?		Yes		No 🗌	N	A 🗌		
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes		No 🗌	N	م 🗆		
5. Sample(s) in	proper contai	ner(s)?			Yes		No 🗌				
6. Sufficient san	nple volume fo	or indicated te	st(s)?		Yes	\checkmark	No 🗌				
7. Are samples	except VOA	and ONG) pro	perly preserve	ed?	Yes	\checkmark	No 🗌				
8. Was preserva	tive added to	bottles?			Yes		No 🗹	NA			
9. Received at le	ast 1 vial wit	headanace -	<1/4" for AO V	1042	Yes		No 🗌	NA			
10. Were any sai					Yes		No 🗹				_
								# of preserve bottles check			
11. Does paperwe (Note discrep					Yes	\checkmark	No 🗌	for pH:		12 unless noted)	
12. Are matrices					Yes	V	No 🗌	Adjuste			
13. Is it clear wha	t analyses we	ere requested	?		Yes	\checkmark	No 🗌			Å	
14. Were all holdi					Yes	\checkmark	No 🗌	Checked	by:	1N9/23,	122
(If no, notify c											-)
Special Hand	19-1-1-19-1-19-1-19-1-19-1-19-1-19-1-1										
15. Was client no	otified of all di	screpancies v	vith this order?	?	Yes		No 🗌	N/	A 🗹		
Person	Notified:			Date	Γ			·			
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16. Additional re											
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Page 86 of 106	ANALYSIS LABORATORY	alle	Hawkins NE - Albuqu	Tel. 505-345-3975 Fax 202-345-4 IU/ Analysis Request	₽ (୦S '' SI ଚନ୍ଦ ତଧ୍ୟ/	boy N/CB	520 520 85 I	808/26 504.1 1 0 0 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D(G) bor 331(C) Aeta Aeta A) A))151 by 6 by 6 by 6 by 6 by 6 by 6 by 6 by 6	BTEX BTEX TPH:80 8081 F B260 (8260 (70, F, 70481 F B260 (70, F, 70481 F B260 (70, F F F F F F F F F F F F F F F F F F F											Remarks:		micerticil to Sinjouback	the norscipility Any sub-contracted data will be clearly notated on the analytical report.	
Received by OCD: 7/30/2024 12:00:17 AM Turn-Around Time:	Client: City to be and a standard Rush URHV	Project Name:		Lroject #:		email or Fax#: Project Manager: Non-14-1	age:	0	Accreditation: Az Compliance Sampler: A vov du Vod VGV V	# of Coolers:	Cooler Temp(Including CF): (C> 1.1 (C)		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a:15 BH13-06 25	9:20 BH13-03 OK -001	a:25 BH23-03 264 -006	BH2-04 001 -00	BH73-04 264	1 9:40 1 8H73-05 0Gt 1 21 -000		Relinquished by: Via:	02/201 " 12/20	ime: Relinquished by: Via:	Abrilly New Clericicus File Rowing 4/23/1.54. 50	Released to maging: 8/15/2024 2:46:45 PM

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Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 17, 2023 Michael Moffitt Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Shudde 27 CTB

OrderNo.: 2311280

Dear Michael Moffitt:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 11/7/2023 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Shudde 27 CTB

2311280-001

Diesel Range Organics (DRO)

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2311280

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/17/2023 **CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-01 Oft Collection Date: 11/3/2023 8:00:00 AM Matrix: SOIL Received Date: 11/7/2023 7:25:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb mg/Kg 11/10/2023 1:21:24 PM ND 9.8 1 ND 49 mg/Kg 1 11/10/2023 1:21:24 PM

Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/10/2023 1:21:24 PM
Surr: DNOP	89.9	69-147	%Rec	1	11/10/2023 1:21:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/12/2023 5:51:33 PM
Surr: BFB	92.0	15-244	%Rec	1	11/12/2023 5:51:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	11/12/2023 5:51:33 PM
Toluene	ND	0.048	mg/Kg	1	11/12/2023 5:51:33 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/12/2023 5:51:33 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/12/2023 5:51:33 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146	%Rec	1	11/12/2023 5:51:33 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/13/2023 8:04:55 AM

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Shudde 27 CTB

2311280-002

Diesel Range Organics (DRO)

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2311280

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/17/2023 **CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-02 Oft Collection Date: 11/3/2023 8:05:00 AM Matrix: SOIL Received Date: 11/7/2023 7:25:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb mg/Kg 11/10/2023 1:31:54 PM ND 10 1 ND 50 mg/Kg 1 11/10/2023 1:31:54 PM

Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/10/2023 1:31:54 PM
Surr: DNOP	85.5	69-147	%Rec	1	11/10/2023 1:31:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/12/2023 6:15:05 PM
Surr: BFB	92.8	15-244	%Rec	1	11/12/2023 6:15:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	11/12/2023 6:15:05 PM
Toluene	ND	0.049	mg/Kg	1	11/12/2023 6:15:05 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/12/2023 6:15:05 PM
Xylenes, Total	ND	0.098	mg/Kg	1	11/12/2023 6:15:05 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146	%Rec	1	11/12/2023 6:15:05 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/13/2023 8:17:19 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

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 9

Shudde 27 CTB

2311280-003

Project:

Lab ID:

Analytical Report Lab Order 2311280

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/17/2023 **CLIENT:** Vertex Resources Services, Inc. Client Sample ID: SS23-03 Oft Collection Date: 11/3/2023 8:10:00 AM Matrix: SOIL Received Date: 11/7/2023 7:25:00 AM Result **RI** Qual Units DF Date Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/10/2023 1:52:52 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/10/2023 1:52:52 PM
Surr: DNOP	86.4	69-147	%Rec	1	11/10/2023 1:52:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/12/2023 6:38:36 PM
Surr: BFB	91.3	15-244	%Rec	1	11/12/2023 6:38:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	11/12/2023 6:38:36 PM
Toluene	ND	0.050	mg/Kg	1	11/12/2023 6:38:36 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/12/2023 6:38:36 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/12/2023 6:38:36 PM
Surr: 4-Bromofluorobenzene	93.8	39.1-146	%Rec	1	11/12/2023 6:38:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/13/2023 8:29:44 AM

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

Qualifiers:

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

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

Page 3 of 9

CLIENT: Vertex Resources Services, Inc.

Shudde 27 CTB

Analytical Report Lab Order 2311280

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS23-04 Oft Collection Date: 11/3/2023 8:15:00 AM Received Date: 11/7/2023 7:25:00 AM

Lab ID: 2311280-004	Matrix: SOIL	Rece	eived Date:	11/7/2	023 7:25:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/10/2023 2:03:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/10/2023 2:03:24 PM
Surr: DNOP	85.6	69-147	%Rec	1	11/10/2023 2:03:24 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/12/2023 7:25:38 PM
Surr: BFB	92.5	15-244	%Rec	1	11/12/2023 7:25:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	11/12/2023 7:25:38 PM
Toluene	ND	0.049	mg/Kg	1	11/12/2023 7:25:38 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/12/2023 7:25:38 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/12/2023 7:25:38 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146	%Rec	1	11/12/2023 7:25:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/13/2023 8:42:08 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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 9

CLIENT: Vertex Resources Services, Inc.

Shudde 27 CTB

Analytical Report Lab Order 2311280

Date Reported: 11/17/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS23-05 Oft Collection Date: 11/3/2023 8:20:00 AM Received Date: 11/7/2023 7:25:00 AM

Lab ID: 2311280-005	Matrix: SOIL	Rece	eived Date:	11/7/2	023 7:25:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/10/2023 2:13:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/10/2023 2:13:56 PM
Surr: DNOP	86.3	69-147	%Rec	1	11/10/2023 2:13:56 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/12/2023 7:49:06 PM
Surr: BFB	92.2	15-244	%Rec	1	11/12/2023 7:49:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	11/12/2023 7:49:06 PM
Toluene	ND	0.050	mg/Kg	1	11/12/2023 7:49:06 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/12/2023 7:49:06 PM
Xylenes, Total	ND	0.10	mg/Kg	1	11/12/2023 7:49:06 PM
Surr: 4-Bromofluorobenzene	95.5	39.1-146	%Rec	1	11/12/2023 7:49:06 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	11/13/2023 8:54:33 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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 9

Client: Project:		x Resources Services de 27 CTB	, Inc.							
Sample ID:	LCS-78715	SampType: L	cs	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch ID: 78	715	F	RunNo: 10	01137				
Prep Date:	11/13/2023	Analysis Date: 1	1/13/2023	S	SeqNo: 37	714749	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	95.4	90	110			
Sample ID:	MB-78715	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anions	3		
Client ID:	PBS	Batch ID: 78	715	F	RunNo: 1(01137				
Prep Date:	11/13/2023	Analysis Date: 1	1/13/2023	S	SeqNo: 37	714750	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								

- * 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

2311280

17-Nov-23

Client:	Vertex Resources Services, Inc.
Project:	Shudde 27 CTB
Sample ID: LCS-7	675 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 78675 RunNo: 101089
Prep Date: 11/9/	
Analyte	
Diesel Range Organics	5
Surr: DNOP	4.8 5.000 95.3 69 147
Sample ID: MB-78	75 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 78675 RunNo: 101089
Prep Date: 11/9/	023 Analysis Date: 11/10/2023 SeqNo: 3711625 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics	5
Motor Oil Range Organi	
Surr: DNOP	9.3 10.00 92.9 69 147
Sample ID: LCS-7	701 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 78701 RunNo: 101089
Prep Date: 11/10	2023 Analysis Date: 11/11/2023 SeqNo: 3713386 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.8 5.000 96.9 69 147
Sample ID: MB-78	01 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 78701 RunNo: 101089
Prep Date: 11/10	2023 Analysis Date: 11/11/2023 SeqNo: 3713388 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00 101 69 147
Sample ID: LCS-7	707 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 78707 RunNo: 101124
Prep Date: 11/10	2023 Analysis Date: 11/13/2023 SeqNo: 3714787 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.4 5.000 89.0 69 147
Sample ID: MB-78	07 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 78707 RunNo: 101124
Prep Date: 11/10	2023 Analysis Date: 11/13/2023 SeqNo: 3714789 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
,	9.8 10.00 98.5 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

2311280

17-Nov-23

Client: Vertex F Project: Shudde	Resources So 27 CTB	ervices,	Inc.							
Sample ID: Ics-78668	•	ype: LC	-	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	n ID: 786	68	F	RunNo: 1(01125				
Prep Date: 11/8/2023	Analysis D	ate: 11	/12/2023	5	SeqNo: 37	713948	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	93.3	70	130			
Surr: BFB	2000		1000		200	15	244			
Sample ID: mb-78668	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch	n ID: 786	68	F	RunNo: 1(01125				
Prep Date: 11/8/2023	Analysis D)ate: 11	/12/2023	S	SeqNo: 37	713954	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	940		1000		93.8	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

2311280

17-Nov-23

	x Resources S le 27 CTB	Services,	Inc.							
Sample ID: LCS-78668	Samp	Type: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batc	h ID: 786	68	F	RunNo: 1(01125				
Prep Date: 11/8/2023	Analysis [Date: 11	/12/2023	S	SeqNo: 37	714080	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.9	70	130			
Toluene	0.94	0.050	1.000	0	94.1	70	130			
Ethylbenzene	0.95	0.050	1.000	0	94.8	70	130			
Xylenes, Total	2.9	0.10	3.000	0	95.5	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	39.1	146			
Sample ID: mb-78668	Samp	Туре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Batc	h ID: 786	68	F	RunNo: 1(01125				
Prep Date: 11/8/2023	Analysis [Date: 11	/12/2023	S	SeqNo: 37	714083	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	0.96		1.000		96.2		146			

- * 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

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- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9

2311280

17-Nov-23

1. Is Ch 2. How <u>Log Ir</u>	ed By: Juan eted By: Chey ed By: SCM <u>of Custody</u> hain of Custody o was the sample <u>n</u>	complete? delivered?	11/7/2023	rder Number 3 7:25:00 AM 3 8:21:02 AM		1280	(Juan 2, G Clark	RcptNo	p: 1
Comple Reviewe <u>Chain</u> 1. Is Ch 2. How <u>Log Ir</u>	eted By: Cheye ed By: SCM <u>of Custody</u> hain of Custody o was the sample <u>n</u>	enne Cason II 7/33 complete? delivered?					George G		
Reviewe <u>Chain</u> 1. Is Ch 2. How <u>Log Ir</u>	ed By: SCM of Custody hain of Custody of was the sample <u>n</u>	complete? delivered?	11/7/2023	3 8:21:02 AM			Chul		
1. Is Ch 2. How <u>Log Ir</u>	hain of Custody c was the sample <u>n</u>	delivered?							
2. How <u>Log Ir</u>	was the sample	delivered?				-			
Log Ir	<u>n</u>				Yes	\checkmark	No 🗌	Not Present	
					<u>Clier</u>	<u>nt</u>			
		e to cool the samples	?		Yes		No 🗌	NA 🗌	
4. Were	e all samples rece	eived at a temperature	eof>0°Cto	6.0°C	Yes		No 🗌	na 🗆	
5. Samı	ple(s) in proper c	ontainer(s)?			Yes		No 🗌		
6. Suffic	cient sample volu	me for indicated test(s)?		Yes		No 🗌		
7. Are s	amples (except \	/OA and ONG) prope	rly preserved	?	Yes	\checkmark	No 🗌		
8. Was	preservative add	ed to bottles?			Yes		No 🗹	NA 🗌	
9. Recei	eived at least 1 via	al with headspace <1/	'4" for AQ VO	A?	Yes		No 🗌	NA 🗹	
10. Were	e any sample cor	tainers received brok	en?		Yes		No 🔽		
	s paperwork matc	h bottle labels? n chain of custody)			Yes		No 🗌	# of preserved bottles checked for pH:	or >12 unless noted)
-	-	identified on Chain of	f Custody?		Yes		No 🗌	Adjusted?	
13. Is it c	clear what analyse	es were requested?			Yes	\checkmark	No 🗌		
	-	able to be met? for authorization.)			Yes		No 🗍	Checked by:	7111723
Special	l Handling (if	applicable)							
15. Was	client notified of	all discrepancies with	this order?		Yes		No 🗌	NA 🗹	
	Person Notified By Whom: Regarding: Client Instructio	, [Date: 🔽 Via: [] eM	ail 🗌	Phone 🗌 Fay	< 🗌 In Person	
16. Add	litional remarks:								
	oler Information	p °C Condition S	Seal Intact	Seal No	Seal D	ate	Signed By		
1	1.8	Good No	ot Present Y						

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Client: S	Client: Silverback	¥		X Standard	K Rus	5 Davi				ANALYSIS	2	SIS		ABORATORY	Z	Ö	⊾ ا	
	Nev	1 S		Project Name:	Shudde 27	CTB				www.	haller	Iviron	ment	www.hallenvironmental.com				
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Phone #:				JC1,	C1220-	5					Ana	Analysis Request	Requ	est				
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	(Tvpe)			# of Coolers:	-	Under .) w.				
				Cooler Temp(including CF):	-	7101=1.8								ofilo				
				Container	Preservative	HEAL No.					<u>В АЯ</u> Е, Е	V) 08	S) 02	D le:				
Date	Time	Matrix	Sample Name	#	Type	2311280								юТ				
11/03/23	8:00	Soil	SS23-01 Oft	1, 4oz jar	lce	Col	×	X			×							
11/03/23	8:05	Soil	SS23-02 0ft	1, 4oz jar	lce	200	×	×			X							
11/03/23	8:10	Soil	SS23-03 0ft	1, 4oz jar	lce	203	X	×			X							
11/03/23	8:15	Soil	SS23-04 0ft	1, 4oz jar	lce	ecy	×	X			×							
11/03/23	8:20	Soil	SS23-05 0ft	1, 4oz jar	lce	605	×	×			×							
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_	f necessary.	samples sub	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	contracted to other ac	credited laboratorie	ss. This serves as notice of this	possibil	ty. Any	sub-con	tracted c	ata will	oe clear	ly notate	d on the ane	lytical rep	port.		

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 368056

QUESTIO	NS
Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	368056
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2312834075
Incident Name	NAPP2312834075 SHUDDE 27 CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.	
Site Name	SHUDDE 27 CTB
Date Release Discovered	04/30/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.		
Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	Yes	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο	
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 fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Generator Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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)	Generator failed which cut off supply air to the dumps on the separator which then sent oil to the flare which ignited.

District I

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

QUESTIONS, Page 2

Action 368056

QUESTIONS (continued)

Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	368056
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. The source of the release has been stopped True The impacted area has been secured to protect human health and the True environment Released materials have been contained via the use of berms or dikes, absorbent True pads, or other containment devices All free liquids and recoverable materials have been removed and managed True appropriately If all the actions described above have not been undertaken, explain why Not answered. Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Heather Treffert Title: Field Operations Analyst I hereby agree and sign off to the above statement

Email: htreffert@silverbackexp.com
Date: 07/29/2024

District I

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 368056

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QUESTIONS (continued)

Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	368056
	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 approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Between 51 and 75 (ft.)
NM OSE iWaters Database Search
No
and the following surface areas:
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Between 1000 (ft.) and ½ (mi.)
Between 1000 (ft.) and ½ (mi.)
Between 1000 (ft.) and ½ (mi.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Medium
Between 1 and 5 (mi.)
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 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 CI B) 130 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 10 GRO+DRO (EPA SW-846 Method 8015M) 10 BTEX (EPA SW-846 Method 8021B or 8260B) 0.2 (EPA SW-846 Method 8021B or 8260B) Benzene 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 05/01/2023 On what date will (or did) the final sampling or liner inspection occur 11/03/2023 On what date will (or was) the remediation complete(d) 09/21/2023 What is the estimated surface area (in square feet) that will be reclaimed 522 What is the estimated volume (in cubic yards) that will be reclaimed 8 What is the estimated surface area (in square feet) that will be remediated 522 What is the estimated volume (in cubic yards) that will be remediated 8 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

District I

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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 368056

Operator:	OGRID:	
Silverback Operating II, LLC	330968	
1001 W. Wilshire Blvd	Action Number:	
Oklahoma City, OK 73112	368056	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

OUESTIONS (continued)

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 LEA LAND LANDFILL [fEEM0112342028] 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) No (In Situ) Soil Vapor Extraction No (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) No (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) No (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) No Ground Water Abatement pursuant to 19.15.30 NMAC No OTHER (Non-listed remedial process) No Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Name: Heather Treffert Title: Field Operations Analyst I hereby agree and sign off to the above statement Email: htreffert@silverbackexp.com Date: 07/29/2024

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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Operator:

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Action 368056

QUESTIONS (continued) OGRID: Silverback Operating II, LLC 330968 1001 W. Wilshire Blvd Action Number: Oklahoma City, OK 73112 368056

Action Type:

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 368056

Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	368056
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS (continued)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	368142
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/03/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	485

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	522	
What was the total volume (cubic yards) remediated	8	
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	522	
What was the total volume (in cubic yards) reclaimed	8	
Summarize any additional remediation activities not included by answers (above)	N/A	
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of	
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: Heather Treffert
	Title: Field Operations Analyst
	Email: htreffert@silverbackexp.com
	Date: 07/29/2024

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QUESTIONS, Page 7

Action 368056

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QUESTIONS (continued) Operator: OGRID: Silverback Operating II, LLC 330968 1001 W. Wilshire Blvd Action Number: Oklahoma City, OK 73112 368056 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS

Only answer the questions in this group if all reclamation steps have been completed.		
No		

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CONDITIONS

Action 368056

CONDITIONS Operator: OGRID: Silverback Operating II, LLC 330968 1001 W. Wilshire Blvd Action Number: Oklahoma City, OK 73112 368056 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Create	By Condition	Condition Date
rhan	We have received your Remediation Closure Report for Incident #NAPP2312834075 SHUDDE 27 CTB, thank you. This Remediation Closure Report is approved.	8/15/2024