Environmental Site Remediation Work Plan



General Information

NMOCD District:	District 2 - Artesia	Incident ID:	nAPP2433927741
Landowner:	Private – Yates Ranch Property LLP	Coordinates:	32.725171, -104.497566
Client:	Silverback Operating II, LLC	Site Location:	Rumble State #4H
Date:	February 18, 2025	Project #:	24E-05130
Client Contact:	Fernando Rodriguez	Phone #:	575.361.4509
Vertex PM:	Chance Dixon	Phone #:	575.988.2681

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. The areas of environmental concern identified and delineated include pasture areas and the pipeline right-of-way. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Appendix A. The closure criteria for the site are presented below.

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs								
Minimum depth below any point within the horizontal boundary of the release to groundwater less than								
10,000 mg/l TDS	Constituent	Limit						
	Chloride	600 mg/kg						
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg						
	BTEX	50 mg/kg						
	Benzene	10 mg/kg						

bgs – Below ground surface

DTGW – Depth to groundwater

TDS – Total dissolved solids

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) BTEX - Benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

The release occurred on November 23, 2024, due to a power outage on the PLC for the air compressor overfilled separator and gas scrubber and routed fluids to the high-pressure flare, which then over sprayed surrounding areas of the pad and pasture. No free fluids were recovered but impacted soils were scraped off during the initial site assessment and clean-up. Additional details relevant to the release are presented in the C 141 Report. Daily Field Report (DFR) with site photographs documenting this initial scrape are included in Appendix B. Site characterization was completed on February 10, 2025. A total of 27 sample points were established, and samples were collected for field screening. Samples at the deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 60 samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis. The sample locations are presented on Figure 1. Laboratory analysis results have been compared to the above-noted closure criteria and the results from the characterization activity are presented in Table 2. Exceedances are identified in the table as bold with a green background. The laboratory data report is presented in Appendix C.

Proposed Remedial Activities

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the

Environmental Site Remediation Work Plan



volume of soil to be removed. The soil will be excavated to the extent of the known contamination with field screening utilized to confirm the removal of contaminated soil below the applicable closure criteria.

Exceedances to closure criteria were identified at sampling locations BH25-12 and BH25-21. The initial scrape proved to be effective for other areas of characterization. This initial remedial response and subsequent delineation revealed no further impacts. Heavy equipment will be utilized to remove remaining impacted material and complete remedial activities in sampling areas BH25-12 and BH25-21. Field screening will be implemented to confirm the removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stockpiled on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, notification for confirmatory samples collection will be provided to the NMOCD two business days prior to conducting final sampling pursuant to 19.15.29.12.D(1)(a). Confirmatory samples will be collected, and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

The estimated volume to be excavated is ~140 cubic yards.

Sample Point	Excavation Depth	Remediation Method				
BH25-12	3 ft bgs	Trackhoe				
BH25-21	3 ft bgs	Trackhoe				

Variance Requests

Vertex is requesting a variance in accordance with the requirements of 19.15.29 NMAC related to the final confirmation sampling of the release's remediation activities. Specifically, Vertex seeks approval to use delineation sampling locations: **BH25-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, and 27** as a form of final confirmation sampling for the remediated areas. Notification for final sampling will be provided to the NMOCD two business days prior to conducting final sampling pursuant to 19.15.29.12.D(1)(a).

During our remediation efforts, we have performed extensive soil sampling and analysis to delineate the impacted area. The delineation sampling locations were strategically selected based on the extent of the release, the topography of the site, and the results of the initial site assessment. Given the thoroughness of the delineation sampling process, these sample points provide a comprehensive representation of the impacted area. The laboratory analytical results from these points depict that the impacted soils have been properly remediated to NMOCD's strictest closure criteria. Vertex and Silverback respectfully request that the NMOCD grant a variance allowing the use of delineation sample points as confirmation for the remediation at the release. We believe this approach is consistent with the intent of the OCD's regulations and will ensure the protection of human health and the environment while allowing for a more efficient resolution of the incident.

Vertex did not anticipate that the remnant impacts would be miniscule. Thus, no confirmation sampling notifications were submitted to NMOCD. Therefore, Vertex would like to respectfully request another variance to use the data explained above to be used for closure without the utilization of confirmation sampling notices.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertexresource.com.

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Environmental Site Remediation Work Plan



February 20, 2025

Fernando Rodriguez, B.Sc. PROJECT MANAGER, REPORTING Date

In-text Tables

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs

List of Figures

Figure 1. Characterization Sampling Site Schematic

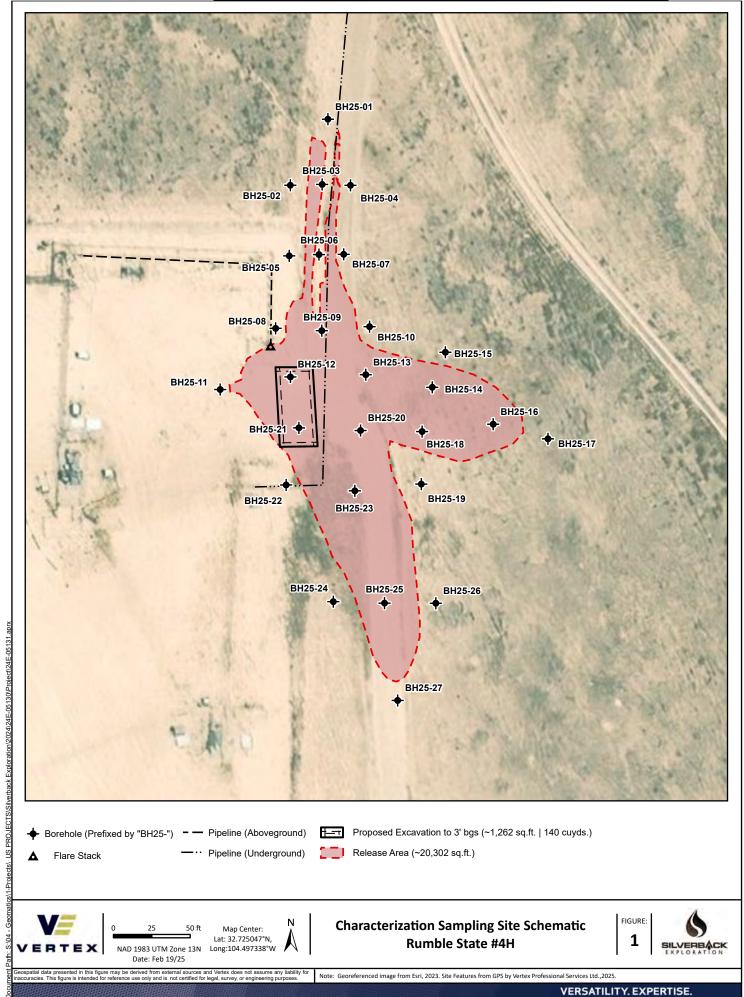
List of Tables

Table 2. Initial Characterization Field Screen and Laboratory Results

List of Appendices

- Appendix A. Closure Criteria Research Documentation
- Appendix B. Daily Field Report with Initial Scrape Photo Documentation
- Appendix C. Laboratory Data Report and Chain of Custody Form

FIGURES



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TABLES

Client Name: Silverback Operating II, LLC Site Name: Rumble State #4H NMOCD Tracking #: nAPP2433927741 Project #: 24E-05130 Lab Reports: H250110, H250549, H250550, H250824

		1				n Field Scr	een and La	aboratory	Results				
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	eum Hydrod				
			spunoc	g)	E	Vol	atile	ics		Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	된 Volatile Organic Compounds 필 (PID)	편 답 (PetroFlag) (PetroFlag)	d) 여 (m Chloride Concentration	əuəzuəg Beuzene (mg/kg)	BTEX (Total) (mg/kg) Depth to G	amprovenski (GRO) (GRO) (GRO)	besel Range Organics (DRO) (DRO)	sad) Motor Oil Range Organics (MRO)	(OXO + DKO) (mg/kg)	ଇୁ Total Petroleum ଅନ୍ଧି Hydrocarbons (TPH)	(Ba/kg) (ga/ration
BH25-01	0	January 2, 2025	-	-	21	ND	ND	ND	13.3	ND	13.3	13.3	16
21.20 02	2 0	January 2, 2025	-	-	35 132	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	32 16
BH25-02	2	January 2, 2025 January 2, 2025	-	-	132	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	16
	0	January 2, 2025	-	-	91	ND	ND	ND	ND	ND	ND	ND	64
BH25-03	2	January 2, 2025 January 2, 2025	-	-	101 89	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	32 112
DU05.04	4 0	January 2, 2025	-	-	193	ND	ND	ND ND	ND	ND	ND	ND ND	112
BH25-04	2	January 2, 2025	-	-	109	ND	ND	ND	ND	ND	ND	ND	32
BH25-05	0	January 2, 2025	-	-	81	ND	ND	ND	ND	ND	ND	ND	48
	2 0	January 2, 2025 January 2, 2025	-	-	105 121	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	48 80
BH25-06	2	January 2, 2025	-	-	108	ND	ND	ND	ND	ND	ND	ND	64
	4	January 2, 2025	-	-	130	ND	ND	ND	ND	ND	ND	ND	48
BH25-07	0	January 2, 2025 January 2, 2025	-	-	150 193	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	96 80
	0	January 2, 2025	-	-	38	ND	ND ND	ND ND	ND	ND ND	ND	ND ND	112
BH25-08	2	January 2, 2025	-	-	72	ND	ND	ND	ND	ND	ND	ND	32
51125.00	0	January 2, 2025	-	-	52	ND	ND	ND	27.3	ND	27.3	27.3	112
BH25-09	2	January 2, 2025 January 2, 2025	-	-	130 80	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	176 272
BU25 40	0	January 2, 2025	-	-	32	ND	ND	ND	ND	ND	ND	ND	16
BH25-10	2	January 2, 2025	-	-	33	ND	ND	ND	ND	ND	ND	ND	80
BH25-11	0	January 29, 2025	-	-	236	ND	ND	ND	15.1	ND	15.1	15.1	16
	1 0	January 29, 2025 January 28, 2025	-	- ND	305 2,873	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	16 2200
BH25-12	2	January 28, 2025	-	ND	1,679	ND	ND	ND	ND	ND	ND	ND	960
	4	February 10, 2025	-	10	320	ND	ND	ND	ND	ND	ND	ND	16
BH25-13	0	January 2, 2025 January 2, 2025	-	-	56 150	ND ND	ND ND	ND ND	ND 44.3	ND ND	ND 44.3	ND 44.3	48 320
01120-13	4	January 2, 2025	-	-	45	ND	ND	ND	44.3 ND	ND	44.3 ND	44.3 ND	112
BH25-14	0	January 28, 2025	-	39	636	ND	ND	ND	ND	ND	ND	ND	320
51125 14	2	January 28, 2025	-	3	236	ND	ND	ND	ND	ND	ND	ND	64
BH25-15	0	January 2, 2025 January 2, 2025	-	-	31 45	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	16 16
BH25-16	0	January 28, 2025	-	1	311	ND	ND	ND	ND	ND	ND	ND	112
BH25-10	2	January 28, 2025	-	2	269	ND	ND	ND	ND	ND	ND	ND	16
BH25-17	0	January 28, 2025 January 28, 2025	-	ND ND	330 275	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	64 48
BH25-18	0	January 28, 2025	-	ND	346	ND	ND	ND	ND	ND	ND	ND	128
01-67119	2	January 28, 2025	-	ND	419	ND	ND	ND	ND	ND	ND	ND	64
BH25-19	0	January 28, 2025 January 28, 2025	-	-	298 320	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	32 32
BH25-20	0	January 28, 2025	-	-	447	ND	ND	ND	56.6	14.4	56.6	71	160
520 20	2	January 28, 2025 January 28, 2025	-	- 950	303 3,544	ND ND	ND 1.58	ND 355	ND 12700	ND 1960	ND 13055	ND 15015	16 5840
BH25-21	2	January 28, 2025	-	48	5,544 637	ND	1.58 ND	ND	647	208	647	855	400
	4	February 10, 2025	-	20	136	ND	ND	ND	ND	ND	ND	ND	16
BH25-22	0	January 29, 2025 January 29, 2025	-	-	443 317	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	80 48
BH25-23	0	January 29, 2025	-	-	318	ND	ND	ND	20.5	ND	20.5	20.5	240
51120 20	2 0	January 29, 2025 January 29, 2025	-	-	326 290	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	16 32
BH25-24	2	January 29, 2025 January 29, 2025	-	-	290 372	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	32 16
BH25-25	0	January 29, 2025	-	-	349	ND	ND	ND	ND	ND	ND	ND	32
	2 0	January 29, 2025 January 29, 2025	-	-	320 344	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	16 16
BH25-26	2	January 29, 2025	-	-	458	ND	ND	ND	ND	ND	ND	ND ND	48
BH25-27	0	January 29, 2025	-	-	402	ND	ND	ND	ND	ND	ND	ND	16
	2	January 29, 2025	-	-	410	ND	ND	ND	ND	ND	ND	ND	32

"ND" Not Detected at the Reporting Limit "-" indicates not analyzed/assessed Bold and grey: exceeds NMOCD Closure Criteria (on-pad)

Bold and green: exceeds NMOCD Reclamation Criteria (off-pad)

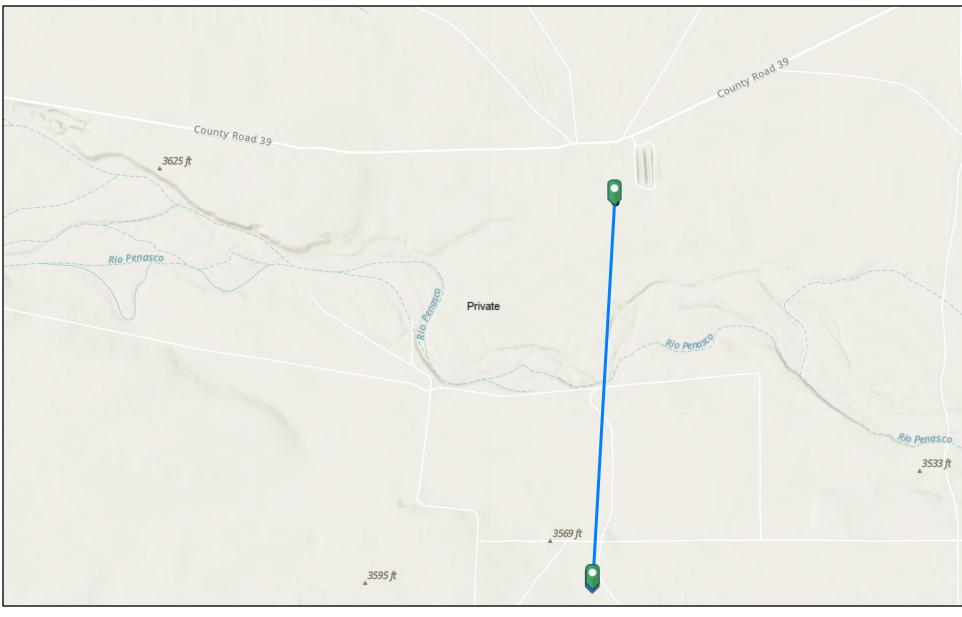


APPENDIX A

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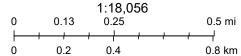
	e: Rumble State #4H rdinates: 32.725171,-104.497566	X: 547081	Y: 3620932
	Closure Criteria Determination	X. 947001	1. 3020332
	ific Conditions	Value	Unit
•	Depth to Groundwater (nearest reference)	150	feet
4		5,052	feet
1	Distance between release and nearest DTGW reference	0.96	miles
	Date of nearest DTGW reference measurement	Janua	ary 31, 1961
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	2,641	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	13,011	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	52,458	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 		feet
	ii) Within 1000 feet of any fresh water well or spring	73,667	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	4,465	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	16,989	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	0	feet
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	2,773	feet
11	Soil Type	UR: Upton-	Reagan Complex
12	Ecological Classification	R042CY15	53NM — Loamy
13	Geology	Qp - Piedmo	nt alluvial deposits
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Rumble State #4H - DTGW



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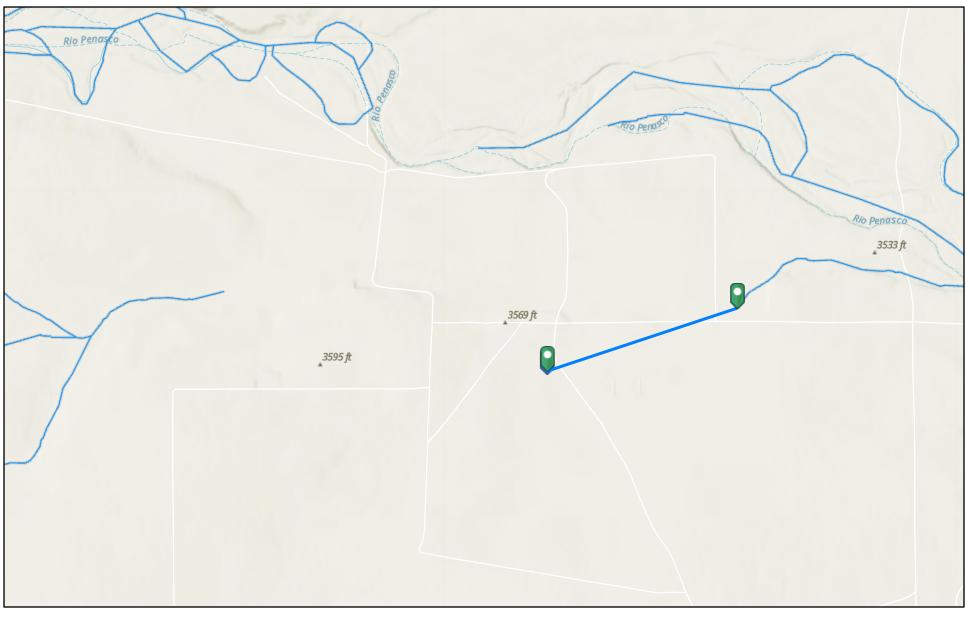
OSE Water PODs Land Ownership



New Mexico Oil Conservation Division

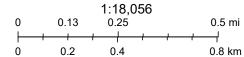
U.S. BLM, Esri, NASA, NGA, USGS, FEMA, OCD, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri,

Rumble State #4H - Watercourse



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OSE Streams

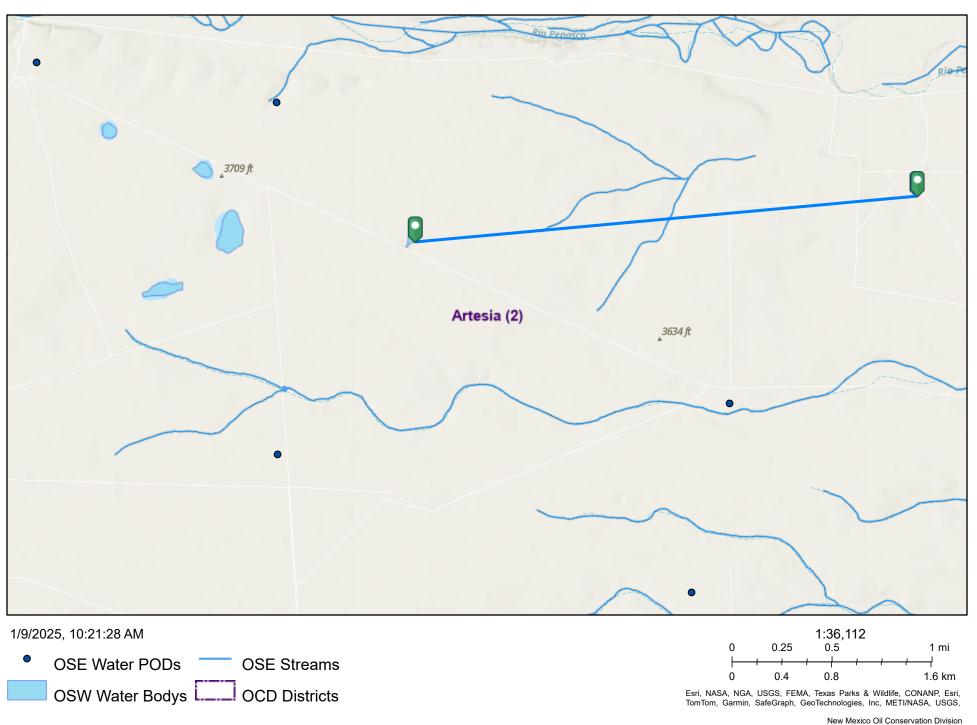


New Mexico Oil Conservation Division

Esri, NASA, NGA, USGS, FEMA, OCD, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri, TomTom, Garmin,

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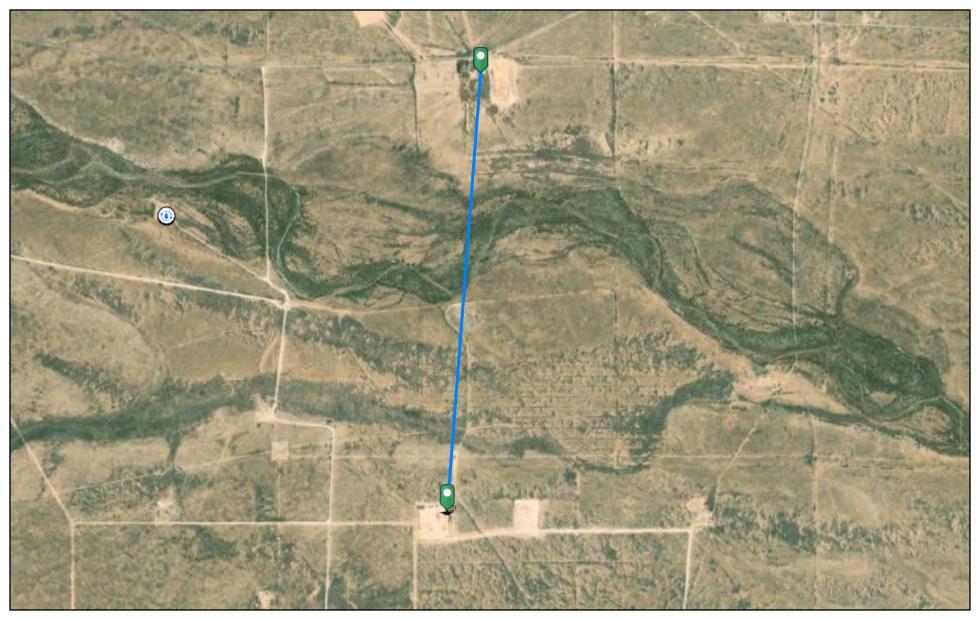
Rumble State 4H - Lake



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NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Rumble State #4H - Residence

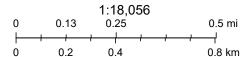


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Incident Release



Produced Water Release



New Mexico Oil Conservation Division

Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri, HERE, Garmin, iPC, Maxar

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

			(acre ft per annum)				and no l) has been onger serv the file is c	ves this		ers are 1 ers are s				SE)	(NAD83 UTM	l in meters)		(meters)			(in feet)	(in feet)
WR File Nbr	Sub basin	Use	Diversion	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Мар	Distance	Start Date	End Date	Depth Well	Depth Water
<u>RA 04344</u>	RA	DOL	3.000	СН	<u>RA 04344</u>				Shallow		NW	NW	21	18S	25E	547168.0	3622497.0 *		1,567.4	1960-12-02	1960-12-13	381	220
<u>RA 04365</u>	RA	DOL	3.000	СН	<u>RA 04365</u>				Shallow		NW	NW	21	18S	25E	547168.0	3622497.0 *	0	1,567.4	1961-01-21	1961-02-01	265	150

Record Count: 2

Filters Applied:

<u>UTM Filters (in meters):</u>

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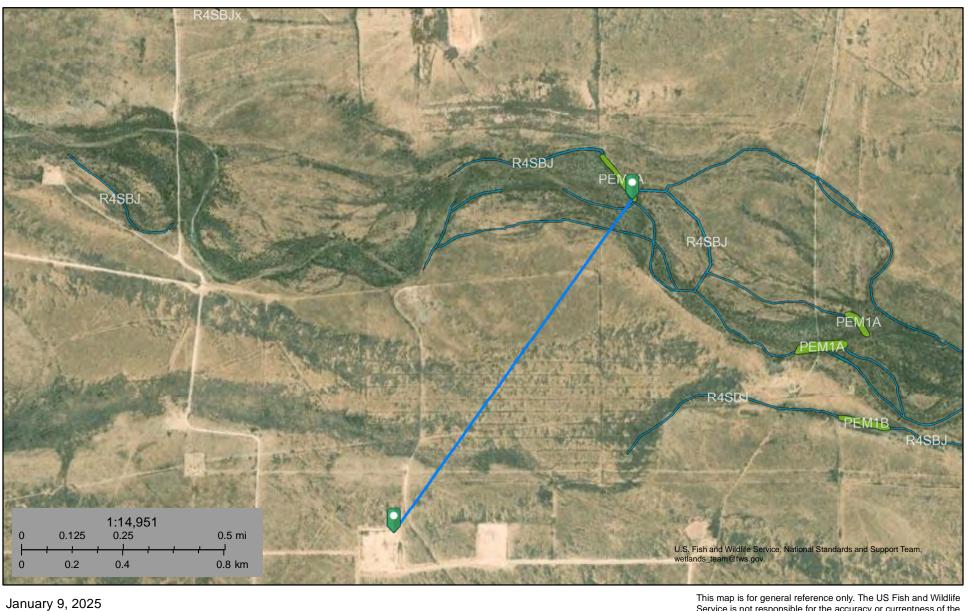
Sorted By: Distance

 \ast 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.

U.S. Fish and Wildlife Service National Wetlands Inventory

Rumble State #4H - Wetland



Lake

Other

Riverine

Freshwater Emergent Wetland

Freshwater Pond

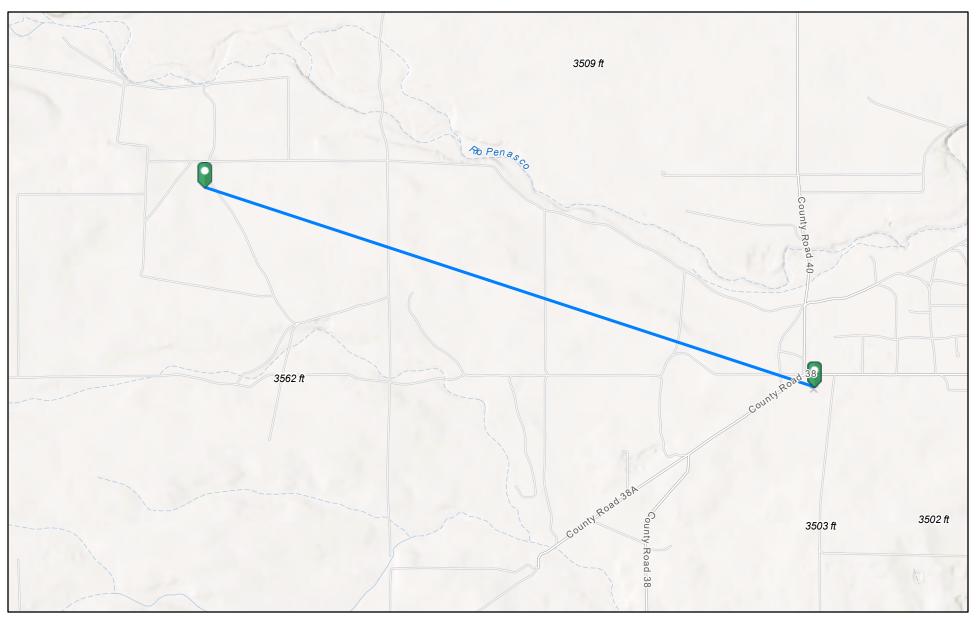
Freshwater Forested/Shrub Wetland

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
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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.

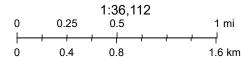
Rumble State #4H - Mine



2/17/2025, 12:46:17 PM Registered Mines

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Aggregate, Stone etc.



EMNRD MMD GIS Coordinator

Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

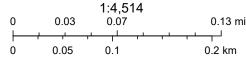
Rumble State #4H - Karst



Incident Release Karst Occurrence Potential

Ð Oil Release Medium Low





New Mexico Oil Conservation Division

BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri, HERE, Garmin,

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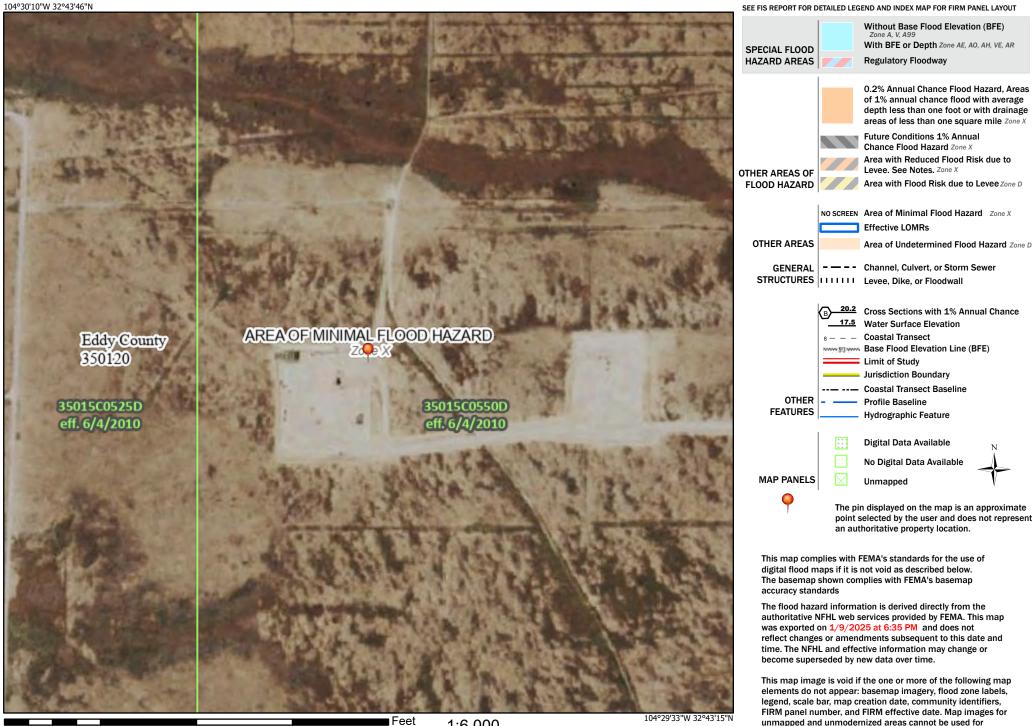
NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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Legend

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regulatory purposes.

Basemap Imagery Source: USGS National Map 2023

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USDA 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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Soil Map	
Soil Map (Rumble State #4H (30-015-45749))	
Legend	
Map Unit Legend (Rumble State #4H (30-015-45749))	
Map Unit Descriptions (Rumble State #4H (30-015-45749))	
Ėddy Area, New Mexico	13
RE—Reagan-Upton association, 0 to 9 percent slopes	
UR—Upton-Reagan complex, 0 to 9 percent slopes	
References	

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 class 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

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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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MA	P LEGEND	MAP INFORMATION				
Area of Interest (AOI) Area of Interest (AO	DI) Spoil Area	The soil surveys that comprise your AOI were mapped at 1:20,000.				
Area of Interest (AC Soils Soil Map Unit Polyg ✓ Soil Map Unit Polyg ✓ Soil Map Unit Point Special Point Features Soil Map Unit Point Ø Blowout Ø Borrow Pit ✓ Clay Spot ✓ Closed Depression ✓ Gravelly Spot ✓ Lava Flow ▲ Marsh or swamp ✓ Mine or Quarry ⑥ Miscellaneous Wat	NormalStory SpotNormalVery Story SpotNormalWet SpotNormalOtherNormalSpecial Line FeaturesWater FeaturesStreams and CanalsWater FeaturesStreams and CanalsTransportationInterstate HighwaysNormalUS RoutesNajor RoadsLocal RoadsBackgroundAerial Photography	 Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as 				
 Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded S Sinkhole Slide or Slip Sodic Spot 		 Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. 				

Map Unit Legend (Rumble State #4H (30-015-45749))

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	0.2	1.6%
UR	Upton-Reagan complex, 0 to 9 percent slopes	10.9	98.4%
Totals for Area of Interest		11.1	100.0%

Map Unit Descriptions (Rumble State #4H (30-015-45749))

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 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

RE-Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d Elevation: 1,100 to 5,400 feet Mean annual precipitation: 6 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 180 to 240 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent Upton and similar soils: 25 percent Minor components: 5 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 60 inches:* loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
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): 6e Hydrologic Soil Group: B Ecological site: R042CY153NM - Loamy Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R042CY159NM - Shallow Loamy Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Pima

Percent of map unit: 2 percent *Ecological site:* R070BC017NM - Bottomland *Hydric soil rating:* No

UR—Upton-Reagan complex, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w65 Elevation: 1,100 to 5,400 feet Mean annual precipitation: 6 to 15 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 180 to 240 days Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 55 percent *Reagan and similar soils:* 35 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Upton

Setting

Landform: Ridges, fans Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s

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Hydrologic Soil Group: D Ecological site: R070BC025NM - Shallow Hydric soil rating: No

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 60 inches:* loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
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: Moderate (about 8.2 inches)

Interpretive groups

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

Minor Components

Pima

Percent of map unit: 5 percent Ecological site: R070BC017NM - Bottomland Hydric soil rating: No

Reagan

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

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Conservation Service

USDA Natural Resources

Ecological site R070BC025NM Shallow

Accessed: 02/17/2025

General information

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

Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range fro 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–25%
Aspect	Aspect is not a significant factor

Table 2. Representative physiographic features

Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 180 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

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

Soil features

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

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

Characteristic soils:

Lozier Potter Tencee Upton Ector Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam(2) Extremely gravelly loam(3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	4–20 in
Surface fragment cover <=3"	15–40%
Available water capacity (0-40in)	1 in
Calcium carbonate equivalent (0-40in)	15–60%

Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

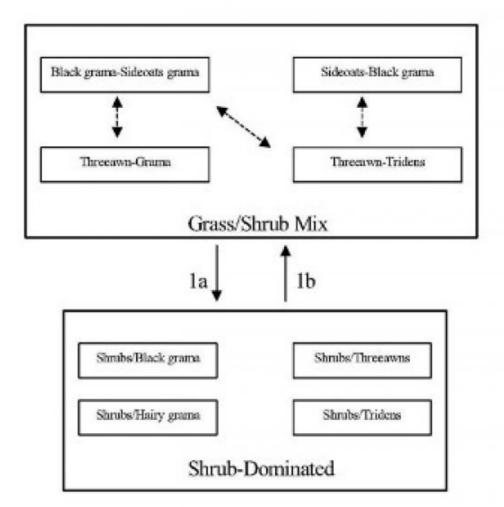
Ecological dynamics

Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)



MLRA-42, SD-3, Shallow

1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

State 1 Grass/Shrub Mix

Community 1.1 Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the subdominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition. Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	168	352	536
Shrub/Vine	63	131	200
Forb	20	42	64
Total	251	525	800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

Figure 5. Plant community growth curve (percent production by month). NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC Warm Season Plant Community.

Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2 Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging

from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces. Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.3 Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion. Key indicators of approach to transition: *Decrease or change in composition or distribution of grass cover. *Increase in size and frequency of bare patches. *Increase in amount of shrub seedlings. Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

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 Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike		•	-	
1				105–158	
	black grama	BOER4	Bouteloua eriopoda	105–158	_
2			·	79–105	
	sideoats grama	BOCU	Bouteloua curtipendula	79–105	_
3			•	79–105	
	blue grama	BOGR2	Bouteloua gracilis	79–105	_
	hairy grama	BOHI2	Bouteloua hirsuta	79–105	_
4			•	26–53	
	bush muhly	MUPO2	Muhlenbergia porteri	26–53	_
5			•	16–26	
	cane bluestem	BOBA3	Bothriochloa barbinodis	16–26	_
6			•	26–53	
	sand dropseed	SPCR	Sporobolus cryptandrus	26–53	_
7			•	16–26	
	hairy woollygrass	ERPI5	Erioneuron pilosum	16–26	_
8		•	•	5–16	
	ear muhly	MUAR	Muhlenbergia arenacea	5–16	_
9			•	5–16	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	5–16	_
10			·	5–16	
	low woollygrass	DAPU7	Dasyochloa pulchella	5–16	_
11			·	16–26	
	Grass, perennial	2GP	Grass, perennial	16–26	_
Forb		•			
12				11–26	
	stemless four-nerve daisy	TEACE	Tetraneuris acaulis var. epunctata	11–26	_
13		•		5–16	
	woolly groundsel	PACA15	Packera cana	5–16	-
A A		I		E 40	

14	1			01–C	
	globemallow	SPHAE	Sphaeralcea	5–16	-
15		-		5–16	
	bladderpod	LESQU	Lesquerella	5–16	_
16		•		5–16	
	cassia	CASSI	Cassia	5–16	_
17		•		11–26	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	11–26	_
Shru	b/Vine	-			
18				5–16	
	littleleaf sumac	RHMI3	Rhus microphylla	5–16	_
19				5–16	
	creosote bush	LATR2	Larrea tridentata	5–16	_
20		•		5–16	
	littleleaf ratany	KRER	Krameria erecta	5–16	_
21		-	L	5–16	
	javelina bush	COER5	Condalia ericoides	5–16	_
22				5–16	
	American tarwort	FLCE	Flourensia cernua	5–16	_
23			L	5–16	
	crown of thorns	KOSP	Koeberlinia spinosa	5–16	_
24				11–26	
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	-
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	-
25			L	5–16	
	catclaw mimosa	MIACB	Mimosa aculeaticarpa var. biuncifera	5–16	_
26				5–16	
	pricklypear	OPUNT	Opuntia	5–16	-
27		-!	ł	11–26	
	mariola	PAIN2	Parthenium incanum	11–26	-
<u> </u>	mariola	PAIN2	Parthenium incanum	11–26	_
28			1	5–16	
	broom snakeweed	GUSA2	Gutierrezia sarothrae	5–16	_
29		-1	1	16–26	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	16–26	_

Animal community

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, marbled whiptail, and greater earless lizard. Where associated with limestone hills, mule deer utilize this site.

Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and

Swainson's hawk nest.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations Soil Series------ Hydrologic Group Lozier------ D Potter------ C Tencee------ D Upton------ C Kimbrough------ D Upton------ D Ector------ D

Recreational uses

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood products

This site has no potential for wood production.

Other products

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush, catclaw, and mesquite. This site will respond best to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index------ Ac/AUM 100 - 76------ 3.7 - 4.5 75 - 51------ 4.3 - 5.5 50 - 26------ 5.3 - 10.0 25 - 0----- 10.1 +

Inventory data references

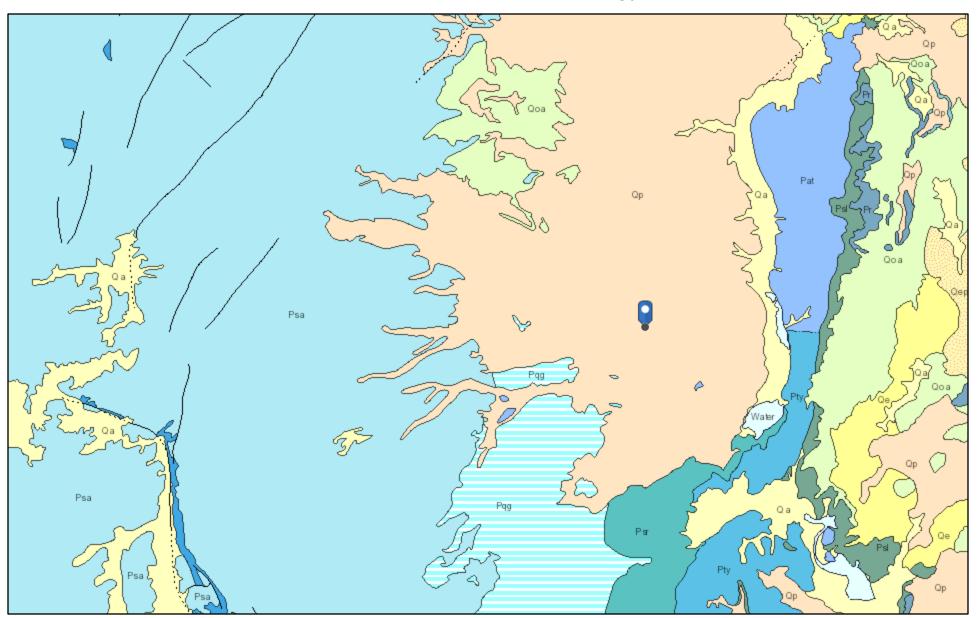
Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.

Rumble State #4H - Geology



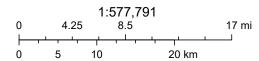
1/9/2025, 12:05:11 PM

Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



Esri, CGIAR, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names

ArcGIS Web AppBuilder

Released to Imaging: 3/10/2 02/5 3:02

APPENDIX B



Client	Silverback Operating II, LLC	Inspection Date	2/18/2025
Site Location Name	Rumble State #4H	API #	30-015-45749
Client Contact Name	Justin Carter	Project Owner	
Client Contact Phone #	405-286-3375	Project Manager	
Project Reference #			
Unique Project ID			
		Summary of Times	
Arrived at Site	2/13/2025 1:30 PM		
Departed Site			
		Field Notes	
Site photograph	of romodiated areas after initial cora	a of impacted materials	

• Site photographs of remediated areas after initial scrape of impacted materials.

Next Steps & Recommendations

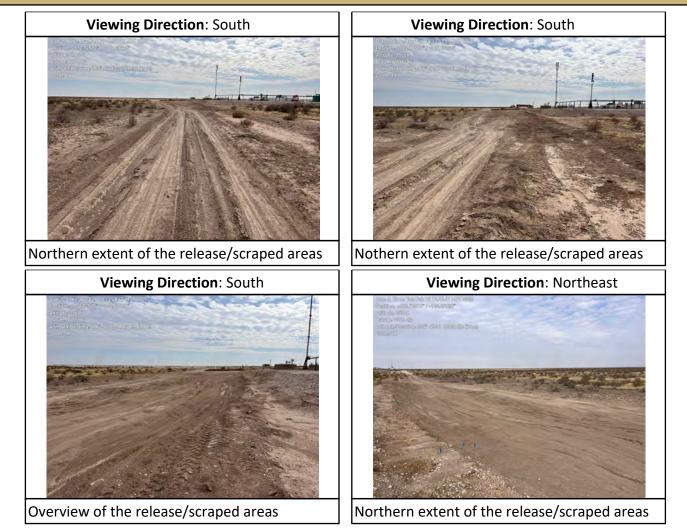
1



Site Photos Viewing Direction: East Viewing Direction: North Overview of scraped west areas (within pad) Overview of scraped road areas Viewing Direction: Southwest Viewing Direction: South 191 E Overview of scraped areas Overview of scraped areas (two-track)



Site Photos





Site Photos Viewing Direction: North Image: Colspan="2">Viewing Direction: West Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Viewing Direction: West Image: Colspan="2">Overview of scraped areas/edge of pad



Daily Site Visit Signature

Inspector: Fernando Rodriguez

F-F Signature: Signature

.

APPENDIX C



January 16, 2025

FERNANDO RODRIGUEZ

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: RUMBLE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 01/10/25 12:51.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



VERTEX RESOURCE
FERNANDO RODRIGUEZ
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 01 @ 0' (H250110-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/10/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	13.3	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNAND) RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	0 NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 01 @ 2' (H250110-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/10/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/10/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNAND	O RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	D NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 02 @ 0' (H250110-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNANDO) RODRIGUEZ		
		3101 BOYI	D DRIVE		
		CARLSBAD	0 NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 02 @ 2' (H250110-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RES	OURCE	
FERNANDO	RODRIGUEZ	
3101 BOYD	DRIVE	
CARLSBAD N	IM, 88220	
Fax To:	NA	

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 03 @ 0' (H250110-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNAND) RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	0 NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 03 @ 2' (H250110-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RES	OURCE
FERNANDO	RODRIGUEZ
3101 BOYD	DRIVE
CARLSBAD N	IM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 03 @ 4' (H250110-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



VERTEX R	ESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBAD	D NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 04 @ 0' (H250110-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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		VERTEX R	ESOURCE		
		FERNAND) RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	0 NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 04 @ 2' (H250110-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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		VERTEX R	ESOURCE		
		FERNAND) RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	0 NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 05 @ 0' (H250110-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	8						

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VERTEX R	ESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBAD	D NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 05 @ 2' (H250110-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2025	ND	218	109	200	7.51	
DRO >C10-C28*	<10.0	10.0	01/11/2025	ND	197	98.7	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	01/11/2025	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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VERTEX R	ESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBAD	0 NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 06 @ 0' (H250110-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX R FERNANDO 3101 BOYI	O RODRIGUEZ				
		CARLSBAD NM, 88220					
		Fax To:	NA				
Received:	01/10/2025			Sampling Date:	01/02/2025		
Reported:	01/16/2025			Sampling Type:	Soil		
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact		
Project Number:	24E-05130			Sample Received By:	Alyssa Parras		
Project Location:	SILVERBACK						

Sample ID: BH25 - 06 @ 2' (H250110-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



VERTEX RES	OURCE
FERNANDO F	RODRIGUEZ
3101 BOYD I	ORIVE
CARLSBAD N	IM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 06 @ 4' (H250110-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE				
	FERNANDO RODRIGUEZ						
	3101 BOYD DRIVE						
		CARLSBAD NM, 88220					
		Fax To:	NA				
Received:	01/10/2025			Sampling Date:	01/02/2025		
Reported:	01/16/2025			Sampling Type:	Soil		
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact		
Project Number:	24E-05130			Sample Received By:	Alyssa Parras		
Project Location:	SILVERBACK						

Sample ID: BH25 - 07 @ 0' (H250110-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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		VERTEX RE	ESOURCE		
		FERNANDO) RODRIGUEZ		
		3101 BOYE	D DRIVE		
		CARLSBAD	NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 07 @ 2' (H250110-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2025	ND	1.94	97.0	2.00	6.12	
Toluene*	<0.050	0.050	01/11/2025	ND	1.97	98.4	2.00	3.52	
Ethylbenzene*	<0.050	0.050	01/11/2025	ND	2.02	101	2.00	2.70	
Total Xylenes*	<0.150	0.150	01/11/2025	ND	6.25	104	6.00	2.56	
Total BTEX	<0.300	0.300	01/11/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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		VERTEX RE	ESOURCE		
		FERNANDO) RODRIGUEZ		
		3101 BOYE	D DRIVE		
		CARLSBAD	NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 08 @ 0' (H250110-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	QM-07
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VE	RTEX RESOURCE		
	FEI	RNANDO RODRIGUE	Z	
	310	01 BOYD DRIVE		
	CA	RLSBAD NM, 88220		
	Fax	x To: NA		
Received:	01/10/2025		Sampling Date:	01/02/2025
Reported:	01/16/2025		Sampling Type:	Soil
Project Name:	RUMBLE STATE #4		Sampling Condition:	Cool & Intact
Project Number:	24E-05130		Sample Received By:	Alyssa Parras

Sample ID: BH25 - 08 @ 2' (H250110-18)

SILVERBACK

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNAND	O RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	D NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 09 @ 0' (H250110-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	27.3	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	109 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	VI	ERTEX RES	OURCE		
	FE	ERNANDO I	RODRIGUEZ		
	3:	101 BOYD I	ORIVE		
	C	ARLSBAD N	IM, 88220		
	Fa	ax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras

Sample ID: BH25 - 09 @ 2' (H250110-20)

SILVERBACK

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	102 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



VERTEX R	ESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBAD	D NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 09 @ 4' (H250110-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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			O RODRIGUEZ				
		3101 BOYD DRIVE					
		CARLSBAL	0 NM, 88220				
		Fax To:	NA				
Received:	01/10/2025			Sampling Date:	01/02/2025		
Reported:	01/16/2025			Sampling Type:	Soil		
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact		
Project Number:	24E-05130			Sample Received By:	Alyssa Parras		
Project Location:	SILVERBACK				·		

Sample ID: BH25 - 10 @ 0' (H250110-22)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



VERTEX R	ESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBAD	0 NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 10 @ 2' (H250110-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE					
		FERNAND) RODRIGUEZ					
	3101 BOYD DRIVE							
		CARLSBAD NM, 88220						
		Fax To:	NA					
Received:	01/10/2025			Sampling Date:	01/02/2025			
Reported:	01/16/2025			Sampling Type:	Soil			
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact			
Project Number:	24E-05130			Sample Received By:	Alyssa Parras			
Project Location:	SILVERBACK							

Sample ID: BH25 - 13 @ 0' (H250110-24)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.24	
Toluene*	<0.050	0.050	01/13/2025	ND	1.76	88.2	2.00	1.18	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.74	87.0	2.00	0.718	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.10	85.0	6.00	1.23	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	VERTEX RE	ESOURCE		
	FERNANDO) RODRIGUEZ		
	3101 BOYE	D DRIVE		
	CARLSBAD	NM, 88220		
	Fax To:	NA		
01/10/2025			Sampling Date:	01/02/2025
01/16/2025			Sampling Type:	Soil
RUMBLE STATE #4			Sampling Condition:	Cool & Intact
24E-05130			Sample Received By:	Alyssa Parras
SILVERBACK				
	01/16/2025 RUMBLE STATE #4 24E-05130	FERNANDC 3101 BOYE CARLSBAD Fax To: 01/10/2025 01/16/2025 RUMBLE STATE #4 24E-05130	01/10/2025 01/16/2025 RUMBLE STATE #4 24E-05130	FERNANDO RODRIGUEZ 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA01/10/2025 01/16/2025 RUMBLE STATE #4 24E-05130Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Sample ID: BH25 - 13 @ 2' (H250110-25)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	44.3	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX R	RESOURCE
FERNAND	O RODRIGUEZ
3101 BOY	D DRIVE
CARLSBA	D NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 13 @ 4' (H250110-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX R	ESOURCE		
		FERNAND	O RODRIGUEZ		
		3101 BOY	D DRIVE		
		CARLSBAD	D NM, 88220		
		Fax To:	NA		
Received:	01/10/2025			Sampling Date:	01/02/2025
Reported:	01/16/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK				

Sample ID: BH25 - 15 @ 0' (H250110-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



VERTEX RI	ESOURCE
FERNANDO) RODRIGUEZ
3101 BOYI	D DRIVE
CARLSBAD	0 NM, 88220
Fax To:	NA

Received:	01/10/2025	Sampling Date:	01/02/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	RUMBLE STATE #4	Sampling Condition:	Cool & Intact
Project Number:	24E-05130	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK		

Sample ID: BH25 - 15 @ 2' (H250110-28)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2025	ND	1.63	81.3	2.00	1.83	
Toluene*	<0.050	0.050	01/13/2025	ND	1.72	86.2	2.00	0.524	
Ethylbenzene*	<0.050	0.050	01/13/2025	ND	1.81	90.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	01/13/2025	ND	5.62	93.7	6.00	0.137	
Total BTEX	<0.300	0.300	01/13/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2025	ND	179	89.6	200	5.60	
DRO >C10-C28*	<10.0	10.0	01/11/2025	ND	184	91.8	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	01/11/2025	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: Address:	State:	Zip: Attn:	Attn:			
City: Phone #:	-		18 S 7 St	1	,	
Project #: QUE-05130	-05136 Project Owner:		State: N/M Zip: 68210	nPO	(100	
Project Name:					14.	
Project Location:	2			100	DIO	
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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C

36 141

Cool Intact

(Initials) 9

Thermometer ID #140 Correction Factor -0.6°C

Ves Ves

Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by	<i>OCD</i> :	2/21/2025	4:23:44 PM
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-		, Hobbs, NM 88240 FAX (575) 393-2476			AD C	0 F J	T
Company Name:	Vertex LBill	to Silverback)	*	+			
Project Manager:	Fernando	22 Anguez	INV: Sil	eyc K		-	
Address:							
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Phone #:		Fax #:	Citure Correct	M			
	24E-05130 Pr	Project Owner:	state: Zip:	0, 1			
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PLEASE NOTE: Liability	and Damages. Cardinal's liability and client's	The second secon	in contract or tort, shall be limited to the amount pr writing and received by Cardinal within 30 days all provident loss of use, or loss of profils incurted by	ter completion of the applicable y client, its subsidiaries,			
affiliales or successors arti	Cardinal be liable for incidental or conseque sing out of or related to the performance of	service. In no event shall Cardinal be liable for incidental or consequential damages, including writers and a services of services hereunder by Cardinal, regardless of whether such data and the service score arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such data and the services are associated as a service score arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such data and the services are associated as a service score arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such data and the services hereunder by Cardinal, regardless of whether such data and the services are associated as a service score arises are associated as a service score are as a	laim is based upon any of the above stated r	Verbal Result:	sons or otherwes. Verbal Result: Ves No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'l Phone #: e Email address:	
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Sampler - UPS	- Bus - Other.	202 No	No Please email (changes to celey.kee	ene@cardinallabsnm	1.com	
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Page 84 of 135

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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February 05, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: RUMBLE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 01/30/25 13:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH25 - 14 @ 0' (H250549-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 14 @ 2' (H250549-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	92.5 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	CO., NM			

Sample ID: BH25 - 16 @ 0' (H250549-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 16 @ 2' (H250549-04)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	CO., NM			

Sample ID: BH25 - 17 @ 0' (H250549-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	85.1	48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 17 @ 2' (H250549-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/31/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 18 @ 0' (H250549-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	81.4	48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 18 @ 2' (H250549-08)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 19 @ 0' (H250549-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		Vertex Ri Chance D 3101 Boyi Carlsbad	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH25 - 19 @ 2' (H250549-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 20 @ 0' (H250549-11)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	56.6	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	14.4	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	0						

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Celey D. Keene, Lab Director/Quality Manager



		Vertex Ri Chance D 3101 Boyi Carlsbad	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH25 - 20 @ 2' (H250549-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	94.4 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	CHANCI 3101 BC	Resource Dixon Dyd Drive Ad NM, 88220		
	Fax To:	NA		
Received:	01/30/2025		Sampling Date:	01/28/2025
Reported:	02/05/2025		Sampling Type:	Soil
Project Name:	RUMBLE STATE #4		Sampling Condition:	Cool & Intact
Project Number:	24E-05130		Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY CO., NM			

Sample ID: BH25 - 21 @ 0' (H250549-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/31/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	0.125	0.050	01/31/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	1.45	0.150	01/31/2025	ND	6.95	116	6.00	2.55	GC-NC1
Total BTEX	1.58	0.300	01/31/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	164 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	355	100	01/31/2025	ND	200	100	200	2.05	
DRO >C10-C28*	12700	100	01/31/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	1960	100	01/31/2025	ND					
Surrogate: 1-Chlorooctane	197 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	229 9	6 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	CO., NM			

Sample ID: BH25 - 21 @ 2' (H250549-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	647	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	208	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	83.4 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	(CO., NM			

Sample ID: BH25 - 12 @ 0' (H250549-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	DIXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/28/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	Y CO., NM			

Sample ID: BH25 - 12 @ 2' (H250549-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

PLEASE NOTE: Liability and Damages. Cerdenal's lability and analyses. All claims including those for incidignence and any other services in two secure shall Cerdenal the liable for incidental or com-				8	2	6	S	4	Cu	ţ	1	FOR LAB I.D.	Sampler Name: T. S	Project Location: Edu	Project Name: Rumble	Project #: 24E-05130	Phone #: 575-988-2681	City: Carlsbad	Address: 310	Project Manager: Cha	Company Name: Ver
PLEASE NOTE: Liability and Damages. Canderal's liability and dent's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatborver shall be deemed waived valees made in writing and received by Canderal witten 30 days after completion of the applicable analyses. All claims including those for incidental or conservented damages includion without invitation business internations loss of use or loss of profits incurred by client. Its subsidiaries.				BH25-18 2ft	BH25-18 0ft	BH25-17 2ft	BH25-17 0ft	BH25-16 2ft	BH25-16 0ft	BH25-14 2ft	BH25-14 0ft	Sample I.D.	Stahl	Eddy County, NM	Rumble State #4H	Project Owner:	81 Fax #:	State: NM	3101 Boyd Dr	Chance Dixon	Vertex Resource Services
services hereunder by Cardinal, regardless of wheth	r any claim arisi e deemed waive			0	0	0	C	0	0	0	C	(G)RAB OR (C)OMP.				ner:		M Zip: 88220			
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or otherwise	paid by the client for the ifter completion of the applic the client. Its subsidiaries			Sp: 1	06:31	11:15	11:00	Shigl	10: 50	10:15	10:00	TIME			0				Exploration		
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Page 104 of 135

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326	101 East Marland
FAX (575)	I, Hobbs,
1.5	MN
393-2476	88240

Pelinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and c analyses. All claims including those for negligence and any other envice. In no event aball Cardinal to lask to the lock of		16	2	14	13	12	11	10	4	Lab I.D.		FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: R	Project #: 24E-05130		City: Carlsbad	Address:	rivject manager:
Thang	to Cardina's liability and client's exclusive remedy for any registence and any other cause whatsoever shall be dee	211-2-14 ZII	BH25-12 01	BH35-13 04	BH25-21 24	BH25-21 0ft	BH25-20 2ft	BH25-20 0ft	BH25-19 2ft	BH25-19 0ft	Sample I.D.		- Clain	T Stahl	Eddy County, NM	Rumble State #4H	Project Owner:		State:	3101 Boyd Dr	Chance Dixon
ages, including without limitation, basiless interruptions, loss of use herevinder by Cardinal regardless of whether such claim is based ::::::::::::::::::::::::::::::::::::	claim articley whether based in contract or to	C 1 X		C 1 X			-	<u>ь</u> .	-		(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	MATRIX					vner:		NM Zip: 88220		
In the based upon any of the above stated reasons or otherwise. In the based upon any of the above stated reasons or otherwise. Fax Result: REMARKS-	based in contract or loss, shall be limited to the amount paid by the order	×	× ×	×	×	×	×	×	5-52-1 ×	0 A < 10 0	DTHER : CID/BASE: CE / COOL	PRESERV. SAMPLING	Fax #:	Phone #:	State: NM Zip: 88210	vity: Artesia	g	fael Alviso	Company: Silverba		PO #
son of the applicable subsidiaries. r otherwise. Phone Result: Fax Result: REMARKS:		-	× 04:51	51:01	13:00	12:45	12:30	12:15	-	TIME		LING			210		~		Silverback Exploration		C
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Add'l Phone #: Add'l Fax #:																					ANALYSIS REQUEST



February 05, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: RUMBLE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 01/30/25 13:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RE CHANCE D 3101 BOYE CARLSBAD	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH - 25 - 11 0' (H250550-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	15.1	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	CO., NM			

Sample ID: BH - 25 - 11 1' (H250550-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	IXON		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH - 25 - 22 0' (H250550-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	2.22	111	2.00	3.34	
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 22 2' (H250550-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 23 0' (H250550-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	20.5	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 23 2' (H250550-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 24 0' (H250550-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	200	100	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	181	90.7	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 24 2' (H250550-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 25 0' (H250550-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 25 2' (H250550-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 26 0' (H250550-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/31/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 26 2' (H250550-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/31/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 27 0' (H250550-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	01/30/2025			Sampling Date:	01/29/2025
Reported:	02/05/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY (CO., NM			

Sample ID: BH - 25 - 27 2' (H250550-14)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2025	ND	1.92	96.1	2.00	2.31	
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.07	104	2.00	1.49	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.43	107	6.00	3.49	
Total BTEX	<0.300	0.300	01/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/31/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2025	ND	186	93.1	200	2.35	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	179	89.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 2/21/2025 4:23:44 PM

No Add'l Phone #-	Ves		Fax Result:				5	Time:	man
	1	ult:	Phone Result:			vecelved BA:		SIM21	Min
			ted reasons or otherwise.	d upon any of the above sta	ther such claim is based	ardless of who	under by Cardinal, reg	related to the performance of services hereund	Relinquished By:
		Ť	ars paid by the client for the s after completion of the applicab	se whatsoever shall be deemed walved unless made in writing and received by Cardinal writing card by the electric to the entral damages, including without limitation; business interruptions, loss of twe, or loss of nontributions in the completion of the c	te in writing and received internuctions, loss of use	ed unless may stion, business	all be deemed waiv sluding without limits	service. In no event shall Cardinal be fable for incidental or consequental damages. Including without limitation, business internuctions, loss of take or loss or los	In no event shall Cardinal be ia
	-			that he limited to the smooth	ansing whether based in contract or tort	ling whether b	by for any claim are	s Cardinal's liability and client's exclusive remedy for any claim	PLEASE NOTE: Liability and Damager
×	××	×	05:01 Q-10:	×	×	-	C		
×	××	×	54:01 5.12-1		×		0 0	BH25-26 01	12
×	× ×	×	1-00-0 10:35	× 1	×		0 0	BH35 36 04	11
×	××	×	05:01 52-32-1	× I	×		0 0	BH35 35 34	10
×	××	×	02:01 22-22-1	×	×	-	0 0	RH35 35 04	00
×	××	×	51:41 2-32-	X 1	×	-	0		×p-
×	××	×	0):01 52-12-1	×	×		0		1-6
×	×	×	00:01 2-82-1	×	×		0		20
×	×	×	Sib 51-12-1	X	×	-	0	DI12 22-62110	24
×	×	×	1-29-25 9:30	×	×	-	0 0	BHOL 22 OIL	20
×	××	×	1-28-05 11:35	×	×			BH35 33 04	1 11
×	×	×	91: h Su22-1	×	>	-		BU35 11 14	11
Ch	⊢	TF			< S	× #	2 (BH25-11 Oft	/
hloride (SM 4500)	TEX (8021B)	PH: (8015) EXT	LING	OTHER : PRESERV.	WASTEWATER SOIL DIL SLUDGE	# CONTAINERS GROUNDWATER	(G)RAB OR (C)OMP	Sample I.D.	Lab I.D.
	_	-		Fax #:					FOR LAB USE ONLY
	_	-						T. Stahl	Sampler Name:
								Eddy County, NM	Project Location:
		-	Zip: 88210	MN				Rumble State #4H	Project Name: Rur
	_	-		City: Artesia			Project Owner:		Project #: 24E-05130
			S. 4th St.	Address: 108 S. 4th St				5-2681 Fax #:	
				Attn: Rafael Alviso	0	Zip: 88220	MN	State:	Car
		2	Silverback Exploration	Company:				3101 Boyd Dr	ess
		1		P.O. #:					- Joor munayer.
ANALYSIS REQUEST			LL TO	BILL				Chance Disco	Project Mananer

Page 122 of 135

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By: FORM-006 R 2.0	SASE NOTE: Lubility and Damages.	IT	1	Lab I.D.	1		Project Location: [Project Name: Rum	Project #: 24E-05130	10	Car	ess:	· indext manager:	Company Name: Project Manager:
affinite or successors wising out of or related to the performance of services hereurode by Cardinal regardless of whether endows, loss of portis, incurred by clearl, its standards, Relinquished By: Date: Date: 1/2.4/755 Received By: FORM-006 R 2.0 Date: 20 0 20 0 20 0 20 0 20 0 20 0 20 0	PLEASE NOTE: Lubitly and Clerify's scalably and clerify's scalably fit any clean arsing whether based in contract or fort, shall be inflated to the amount paid by the clear for the amount paid by the clear for the	BH25-27 2ft	110 /2-C210	Sample I.D.	Ciali	T Stahl	Eddy County, NM	Rumble State #4H	30 Project Owner:	-2681 Fax #:	State:	3101 Boyd Dr	Chance Dixon	Vertex Resource Services
eurode by Cardinal regardless of vietness enteruptions, loss of use 4/725 Received By: 50. 22 Received By:	y claim articing whether based is contract or tor	C 1 X	C 1 X	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE					vner:		NM Zip: 88220			
se, or loss of profits incurred by client, its s ad upon any of the above stated reasons or	shall be limited to the amount paid by the	× 1-22-25 11:15	S2-12-1 ×		Fax #:	Phone #:	State: ININI ZID: 88210	00	City: Artesia	Address: 108 S. 4th St	D	nv:	P.O. #:	BILL TO
Result: sult: RKS:		-	(1:00	TPH: (8015) EXT			210				Alviso	k Evolopation		-
Yes		<	-	BTEX (8021B)	-	-			-		-			
No Add'l Phone #:	×	< ;	×	Chloride (SM 4500)										ANA
□ No Add'I Phone #: □ No Add'I Fax #:														ANALVER DECLIFET
							_				_			

Received by OCD: 2/21/2025 4:23:44 PM

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February 17, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: RUMBLE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 02/11/25 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		VERTEX RI CHANCE D 3101 BOYI CARLSBAD	IXON		
		Fax To:	NA		
Received:	02/11/2025			Sampling Date:	02/10/2025
Reported:	02/17/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDD	Y CO., NM			

Sample ID: BH 25 - 12 4FT (H250824-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/12/2025	ND	1.87	93.6	2.00	2.13	
Toluene*	<0.050	0.050	02/12/2025	ND	1.91	95.3	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/12/2025	ND	1.90	94.9	2.00	2.46	
Total Xylenes*	<0.150	0.150	02/12/2025	ND	5.79	96.5	6.00	2.27	
Total BTEX	<0.300	0.300	02/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	196	98.2	200	8.18	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	200	100	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



			IXON D DRIVE NM, 88220		
		Fax To:	NA		
Received:	02/11/2025			Sampling Date:	02/10/2025
Reported:	02/17/2025			Sampling Type:	Soil
Project Name:	RUMBLE STATE #4			Sampling Condition:	Cool & Intact
Project Number:	24E-05130			Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK - EDDY	CO., NM			

Sample ID: BH 25 - 21 4FT (H250824-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2025	ND	1.87	93.6	2.00	2.13	
Toluene*	<0.050	0.050	02/12/2025	ND	1.91	95.3	2.00	2.30	
Ethylbenzene*	<0.050	0.050	02/12/2025	ND	1.90	94.9	2.00	2.46	
Total Xylenes*	<0.150	0.150	02/12/2025	ND	5.79	96.5	6.00	2.27	
Total BTEX	<0.300	0.300	02/12/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	196	98.2	200	8.18	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	200	100	200	9.06	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.5	% 49.1-14	8						

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 2/21/2025 4:23:44 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUESTIONS

Action 434314

QUESTIONS	
Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	434314
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2433927741
Incident Name	NAPP2433927741 RUMBLE STATE #4H @ 30-015-45749
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-45749] RUMBLE STATE #004H

Location of Release Source

Please answer all the questions in this group.	
--	--

Site Name	RUMBLE STATE #4H
Date Release Discovered	11/23/2024
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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Power outage on the PLC for the air compressor overfilled separator and gas scrubber and routed fluids to the high-pressure flare, which then over sprayed surrounding areas of the pad and pasture. The standing oil caught fire and extinguished itself.

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QUESTIONS, Page 2

Action 434314

QUESTIONS (continued)		
Operator:	OGRID:	
Silverback Operating II, LLC	330968	
1001 W. Wilshire Blvd	Action Number:	
Oklahoma City, OK 73112	434314	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

...

Nature and Volume of Release (continued)		
	Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
ſ	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 environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	NA	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Justin Carter Title: Landman Email: jcarter@novoog.com Date: 12/04/2024	

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 3

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Action 434314

QUESTIONS (contir	nued)
Silverback Operating II, LLC	OGRID: 330968
1001 W. Wilshire Blvd Oklahoma City, OK 73112	Action Number: 434314

[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

Action Type:

QUESTIONS

Operator:

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertic	al extents of contamination been fully delineated	Yes
Was this release entirely of	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)	5840
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	15015
GRO+DRO	(EPA SW-846 Method 8015M)	13055
BTEX	(EPA SW-846 Method 8021B or 8260B)	1.6
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date w	ill the remediation commence	04/01/2025
On what date will (or did) t	he final sampling or liner inspection occur	04/01/2025
On what date will (or was)	the remediation complete(d)	04/15/2025
What is the estimated surf	ace area (in square feet) that will be reclaimed	16500
What is the estimated volu	ime (in cubic yards) that will be reclaimed	203
What is the estimated surf	ace area (in square feet) that will be remediated	1262
What is the estimated volu	me (in cubic yards) that will be remediated	140
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.

General Information Phone: (505) 629-6116

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

QUESTI	ONS (continued)	
Operator:	OGRID:	
Silverback Operating II, LLC	330968	
1001 W. Wilshire Blvd	Action Number:	
Oklahoma City, OK 73112	434314 Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	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.		
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	snowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Fatma Abdallah Title: Regulatory Manager Email: FAbdallah@silverbackexp.com Date: 02/21/2025	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Page 132 of 135

Action 434314

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 434314

QUESTIONS (continued)		
Operator: Silverback Operating II, LLC	OGRID: 330968	
	Action Number: 434314	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		

QUEUNIC		
Deferral	Requests	Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

General Information Phone: (505) 629-6116

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

QUESTIONS (continued)			
Operator:	OGRID:		
Silverback Operating II, LLC 1001 W. Wilshire Blvd	330968 Action Number:		
Oklahoma City, OK 73112	434314		
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		
QUESTIONS			
Sampling Event Information			
Last sampling notification (C-141N) recorded	{Unavailable.}		
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	No	

Action 434314

Page 134 of 135

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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

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CONDITIONS

Action 434314

CONDITIONS

Operator:	OGRID:
Silverback Operating II, LLC	330968
1001 W. Wilshire Blvd	Action Number:
Oklahoma City, OK 73112	434314
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS		
Created By	Condition	Condition Date
scott.rodgers	The remediation plan is approved. The variance request as written is not approved. OCD may consider a variance request to the frequency of confirmation samples provided it can demonstrate that the variance will provide equal or better protection of fresh water, public health, and the environment. Please submit the closure report to the OCD by 06/09/2025.	3/10/2025