



26A-04150

Remediation Closure Report

Sears BSR #002H

API: 30-015-41583

Coordinates: 32.739855, -104.394834

NMOCD Incident ID: nAPP2614652415

Prepared for:

Riley Exploration Permian, Inc.

Prepared by:

Vertex Resource Services, Inc.

Date:

August 2026

Riley Exploration Permian, Inc.
Sears BSR #002H

Remediation Closure Report
August 2026

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Sears BSR #002H
Incident ID: nAPP2614652415
API: 30-015-41583
Coordinates: 32.739855, -104.394834

On behalf of:
Riley Exploration Permian, Inc.
29 East Reno Avenue, Suite 500
Oklahoma City, Oklahoma 73104

Prepared for:
New Mexico Oil Conservation Division
508 West Texas Avenue
Artesia, New Mexico 88210

Prepared by:
Vertex Resource Services, Inc.
3101 Boyd Drive
Carlsbad, New Mexico 88220

John Rewis

John Rewis, B.Sc.
ENVIRONMENTAL TECHNICIAN, REPORTING

8/26/2026

Date

Chance Dixon

Chance Dixon, B.Sc.
SENIOR PROJECT MANAGER, REPORT REVIEW

8/26/2026

Date

Riley Exploration Permian, Inc.
Sears BSR #002H

Remediation Closure Report
August 2026

Executive Summary

Riley Exploration Permian, Inc. (Riley) retained Vertex Resource Services Inc. (Vertex) to complete Remediation Closure Report for the incident number nAPP2614652415 at Sears BSR #002 (hereafter referred to as "site"; API: 30-015-41583). The incident occurred on May 20, 2026, due to mechanical failure allowing fluids to be released onto the pad around the well.

Vertex performed the initial site assessment on May 20, 2026, and identified an area of interest (AOI) on the site around the east separators. Seven boreholes below strictest criteria at two depths confirmed the release extent. No boreholes beyond surface were found in characterization to exceed closure criteria for releases on pad.

On July 20, 2026, approximately 9,802 square feet of soil were excavated to a depth of 0.5 feet below ground surface to address the surface contamination. Fifty base and three wall confirmation samples were collected between July 22, 2026, and July 23, 2026. Laboratory analysis confirmed the samples met closure criteria.

This report establishes that all criteria have been met as is laid out in NMAC 19.15.29 for the incident to be approved for closure.

Table of Contents

1.0 Introduction..... 1

2.0 Background..... 1

 2.1 Access..... 1

 2.2 Site Description 1

 2.3 Ecological Setting..... 1

3.0 Site Evaluation 2

 3.1 Assessment of Closure Criteria 2

4.0 Remedial Actions Taken 4

5.0 Closure Request 4

6.0 References 5

7.0 Limitations..... 6

Riley Exploration Permian, Inc.
Sears BSR #002H

Remediation Closure Report
August 2026

In-text Tables

Table 1. Closure Criteria for Soils Impacted by a Release

Table 2. Closure Criteria Determination

List of Figures

Figure 1. Characterization Sampling Site Schematic

Figure 2. Confirmation Sampling Site Schematic

List of Tables

Table 3. Characterization Sample Laboratory Results – (depth to groundwater >100 feet bgs)

Table 4. Confirmation Sample Laboratory Results – (depth to groundwater >100 feet bgs)

List of Appendices

Appendix A. Closure Criteria Research Documentation

Appendix B. Field Reports

Appendix C. Laboratory Data Reports and Chain of Custody Forms

1.0 Introduction

Riley Exploration Permian, Inc. (Riley) retained Vertex Resource Services Inc. (Vertex) to complete a release assessment and closure for the incident number nAPP2614652415 at the Sears BSR #002H (the "Site"; API: 30-015-41583). This remediation closure report discusses actions conducted to date and proposes no additional characterization and reclamation activities. This document is intended to serve as a final report to obtain Remediation Closure Approval from the New Mexico Oil Conservation Division.

2.0 Background

2.1 Access

The site is located approximately 9.8 miles south of Artesia, New Mexico on privately owned property.

Lease Holder: Riley Exploration Permian, Inc.
Unit Letter D, Section 21, Township 18 South, Range 26 East.
County Name: Eddy County
Latitude, Longitude: 32.739855, -104.394834

The site can be accessed from Artesia, drive south on Highway 285 for 8.2 miles, make a U-turn and head north on Highway 285 for 0.75 mi and turn east onto the lease road for 50 feet. Turn north and continue for 0.38 mi until you reach the site. There are no locked gates or other access issues.

2.2 Site Description

The site is an active production pad for oil and gas operations (Figure 1). Surface and subsurface minerals are owned by a private landowner. The site is situated in a mostly flat area surrounded by gravelly, sandy loam plains with grassy mesquite shrublands. The pad was predominantly devoid of vegetation.

2.3 Ecological Setting

The site is situated in the Chihuahuan Basins and Playas level IV 24a Ecoregion (Griffith et al., 2006). This ecoregion is characterized as having the following natural vegetation: black grama, mesquite, and grasses.

The site is within the Reagan loam (Appendix A) and classified as "Not prime farmland".

The Reagan typical soil profile consists of:

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

With a depth to restrictive layer at more than 80 inches.

Mean annual air temperature is between 60 and 70 °F. Mean annual precipitation is between 7 to 15 inches and the frost-free period is between 200 and 240 days.

3.0 Site Evaluation

Initial site assessment was conducted on May 26, 2026, by Vertex personnel. Staining was observed over the release area. Site characterization was completed between May 26, 2026, and June 2, 2026. The production pad is intact. There is no vegetation throughout the site or present around the equipment. Documentation from the site visits is included in the daily field reports (Appendix B) and summarized below.

- Release was identified by staining around the well and around the pad; release was documented and mapped.
- Sampling was conducted within the pad to delineate the release area.

3.1 Assessment of Closure Criteria

Based on Closure Criteria determination demonstrated in Appendix A and summarized in the Closure Criteria Determination (Table 2), soils chemical concentrations (Closure Criteria per Table 1 of 19.15.29 NMAC) are defined as:

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
≥ 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

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

BTEX – benzene, toluene, ethylbenzene and xylenes

TDS – total dissolved solids

A monitoring well was drilled by Hopper Pump & Drilling and completed on September 1, 2020, 0.33 miles southeast of the site. The boring was drilled to a depth of 180 feet below ground surface (bgs). Groundwater was detected at approximately 120 feet bgs. The borehole log is presented in Appendix A.

Riley Exploration Permian, Inc.

Remediation Closure Report

Sears BSR #002H

August 2026

Table 2. Closure Criteria Determination			
Site Name: Sears BSR #002H			
Spill Coordinates: 32.7398567, -104.3948517		X: 556696.16	Y: 3622610.00
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	120	feet
	Distance between release and nearest DTGW reference	1,745	feet
		0.33	miles
	Date of nearest DTGW reference measurement	September 1, 2020	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	928	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	3,422	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,909	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	1,780	feet
	ii) Within 1000 feet of any fresh water well or spring	1,780	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	feet
7	Within 300 feet of a wetland	928	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	132,442	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	10,891	feet
10	Within a 100-year Floodplain	100-500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	928	feet
11	Soil Type	Reagan loam	
12	Ecological Classification	Loamy	
13	Geology	Piedmont alluvial deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	≤ 50' 51-100' >100'

4.0 Remedial Actions Taken

Remediation efforts began on July 20, 2026, and were finalized on July 21, 2026. Vertex personnel supervised the excavation of impacted soils. Field screening for chlorides and TPH was completed to identify areas requiring additional excavation of impacted soils. Relevant Field Reports documenting various phases of the remediation are presented in Appendix B.

Impacted soils were removed to a depth of 0.5 feet bgs over an area of 9,802 square feet. The area of impact was remediated to the greater than 100 ft DTGW criteria. Approximately 218 cubic yards of impacted soil were transported to a licensed waste management facility.

Confirmatory composite samples were collected from the base and walls of the excavation at increments not exceeding 200 square feet. Each sample location is a 5-point composite within the designated grid.

Notification that confirmation samples were being collected was provided to the NMOCD at least 48 hours prior to the sampling event. A total of 53 samples, including two backfill samples, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA SM4500CL-B). A summary of laboratory results is presented in Table 4 and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below approved closure criteria.

5.0 Closure Request

Confirmatory samples were analyzed by laboratory analysis and results found to be below allowable concentrations per the approved closure criteria. Based on these findings, the client respectfully requests that this remediation closure report be approved.

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

6.0 References

Google Inc. (2026). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

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United States Department of Agriculture, Natural Resources Conservation Service. (2026). *Web Soil Survey*. Retrieved from: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

Riley Exploration Permian, Inc.
Sears BSR #002H

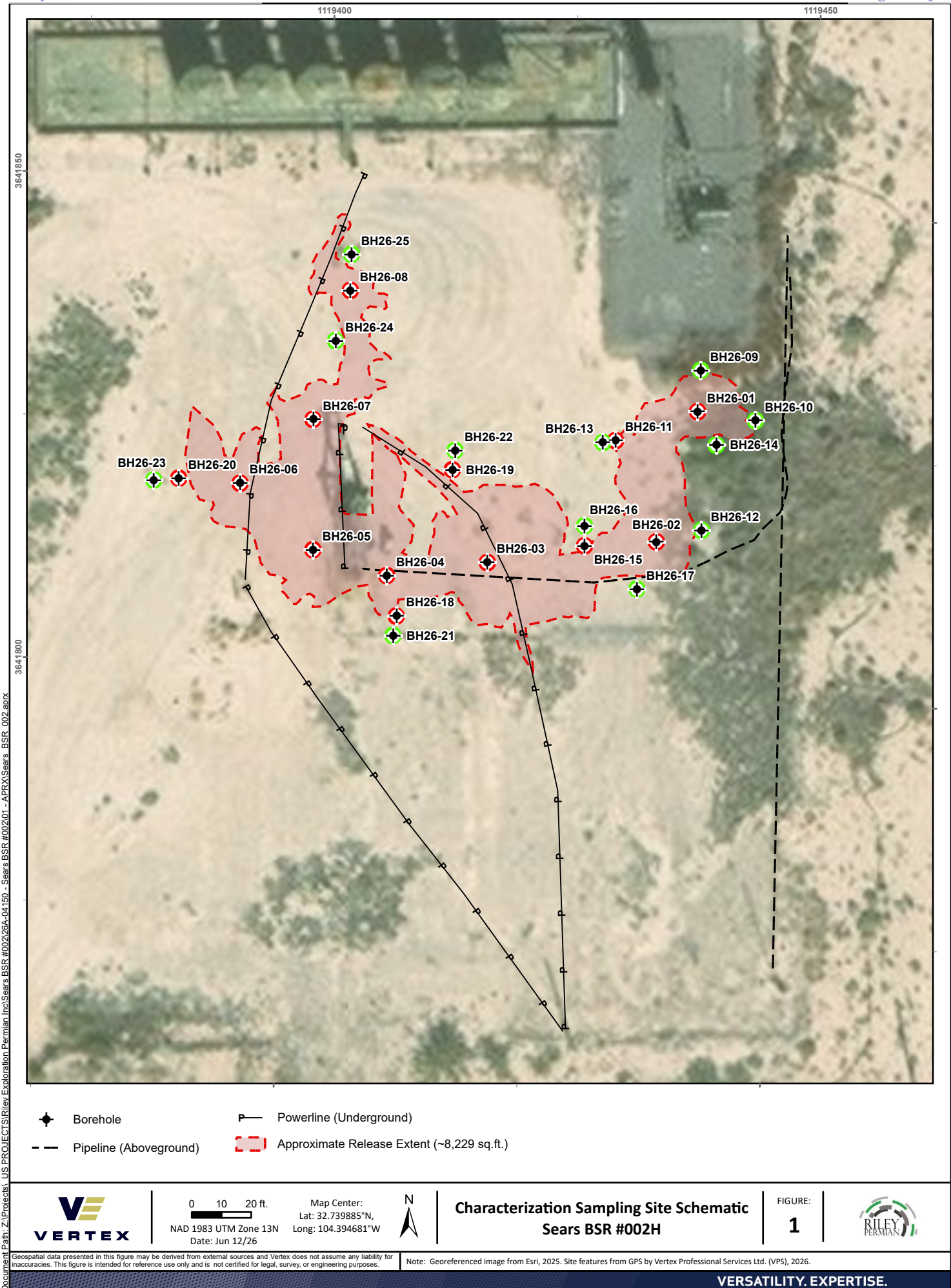
Remediation Closure Report
August 2026

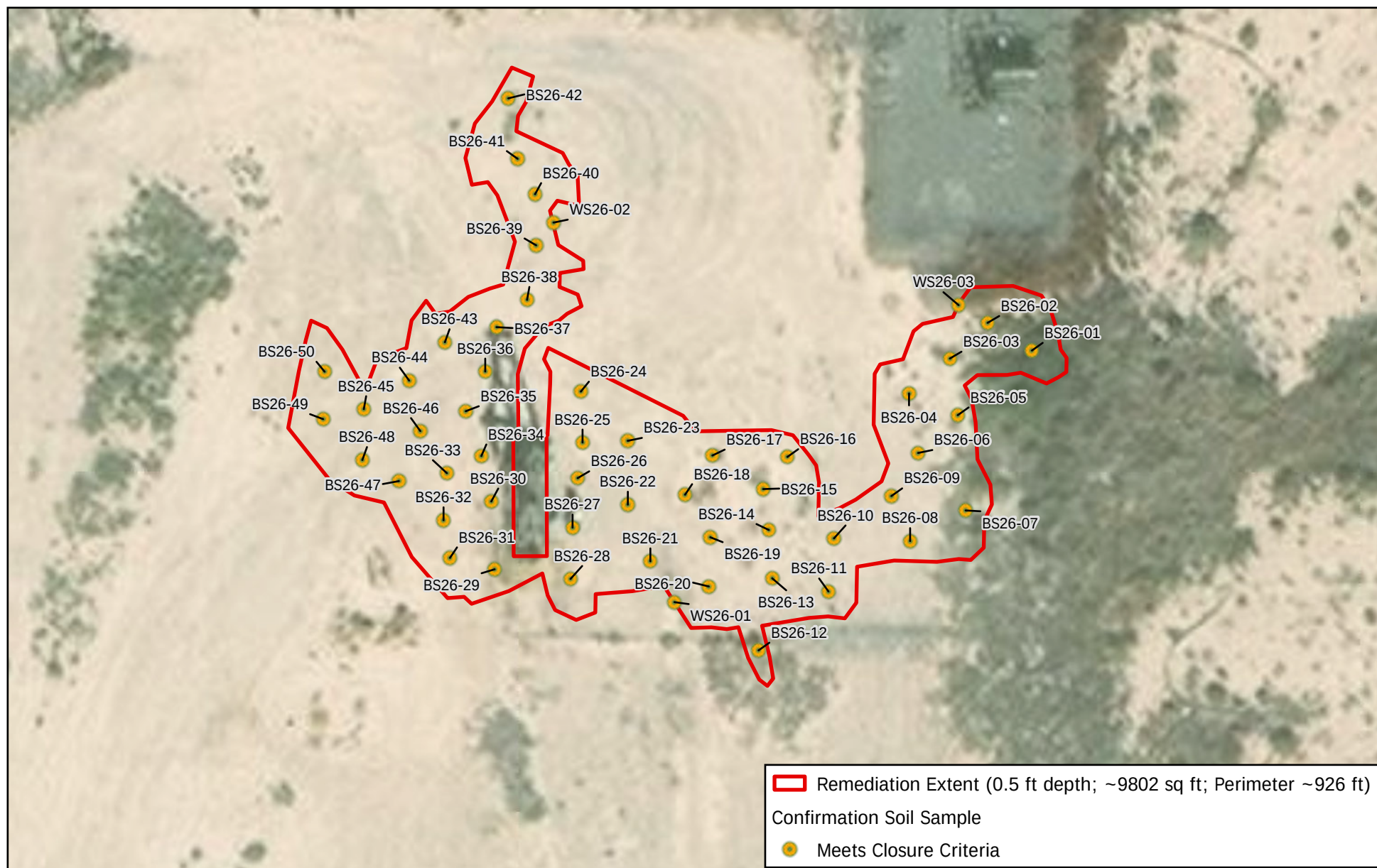
7.0 Limitations

This report has been prepared for the sole benefit of Riley Exploration Permian, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and of Riley Exploration Permian, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

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

Figures





Tables

Client Name: Riley Exploration Permian, Inc.
 Site Name: Sears BSR #002H
 NMOCD Incident ID: nAPP2614652415
 Project #: 26A-04150
 Lab Report: H263078, H263194

Table 3. Characterization Laboratory Results

Table 3. Characterization Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater >100 feet bgs										
BH26-01	0	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	16,200
	1	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	144
	2	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	16
BH26-02	0	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	8,400
	2	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	1,740
	4	May 30, 2026	ND	ND	ND	ND	ND	ND	ND	720
BH26-03	0	May 26, 2026	ND	0.62	ND	3,720	554	3,720	4,274	7,200
	1	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	144
	2	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	304
	4	June 2, 2026	ND	ND	ND	13	ND	13	13	448
BH26-04	0	May 26, 2026	ND	ND	ND	685	111	685	796	8,400
	2	May 26, 2026	ND	ND	ND	ND	ND	ND	ND	1,650
	4	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	1,920
BH26-05	0	June 1, 2026	ND	ND	ND	3,230	575	3,230	3,805	7,680
	2	June 1, 2026	ND	ND	ND	18.4	ND	18.4	18.4	352
	4	June 1, 2026	ND	ND	ND	10.9	ND	10.9	10.9	528
BH26-06	0	June 1, 2026	ND	ND	ND	59	ND	59	59	1,970
	2	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	256
	4	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	656
BH26-07	0	June 1, 2026	ND	ND	ND	233	49.6	233	282.6	8,800
	2	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	912
	4	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	1,180
BH26-08	0	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	672
	1	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	16
	2	June 1, 2026	ND	ND	ND	ND	ND	ND	ND	64
BH26-09	0	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	32
	2	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	32
BH26-10	0	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	64
	2	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	32
BH26-11	0	May 29, 2026	-	-	-	-	-	-	-	-
	2	May 29, 2026	-	-	-	-	-	-	-	-
BH26-12	0	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	32
	2	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	272
BH26-13	0	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	16
	2	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	80
BH26-14	0	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	64
	2	May 29, 2026	ND	ND	ND	ND	ND	ND	ND	64
BH26-15	0	May 29, 2026	-	-	-	-	-	-	-	-
	2	May 29, 2026	-	-	-	-	-	-	-	-

Table 3. Characterization Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater >100 feet bgs										
BH26-16	0	May 30, 2026	ND	ND	ND	ND	ND	ND	ND	32
	2	May 30, 2026	ND	ND	ND	ND	ND	ND	ND	288
BH26-17	0	May 30, 2026	ND	ND	ND	ND	ND	ND	ND	32
	2	May 30, 2026	ND	ND	ND	ND	ND	ND	ND	352
BH26-18	0	June 1, 2026	-	-	-	-	-	-	-	-
	2	June 1, 2026	-	-	-	-	-	-	-	-
BH26-19	0	June 1, 2026	-	-	-	-	-	-	-	-
	2	June 1, 2026	-	-	-	-	-	-	-	-
BH26-20	0	June 1, 2026	-	-	-	-	-	-	-	-
	2	June 1, 2026	-	-	-	-	-	-	-	-
BH26-21	0	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	16
	2	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	368
BH26-22	0	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	144
	2	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	208
BH26-23	0	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	64
	2	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	224
BH26-24	2	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	80
	0	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	128
BH26-25	0	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	48
	2	June 2, 2026	ND	ND	ND	ND	ND	ND	ND	128

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

Client Name: Riley Exploration Permian, Inc.
 Site Name: Sears BSR #002H
 NMOCD Incident ID: nAPP2614652415
 Project #: 26A-04150
 Lab Report: H264162, H264226, H264558

Table 4. Confirmatory Sample Laboratory Results

Table 4. Confirmatory Sample Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
										Depth to Groundwater >100 feet bgs
BS26-01	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	5,280
BS26-02	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	5,600
BS26-03	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	4,880
BS26-04	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	4,000
BS26-05	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	4,400
BS26-06	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	3,040
BS26-07	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	2,520
BS26-08	0.5	July 22, 2026	ND	ND	ND	12.3	ND	12.3	12.3	5,280
BS26-09	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	4,720
BS26-10	0.5	July 22, 2026	ND	ND	ND	28.6	ND	28.6	28.6	3,480
BS26-11	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	1,410
BS26-12	0.5	July 22, 2026	ND	ND	ND	16.1	ND	16.1	16.1	3,240
BS26-13	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	3,680
BS26-14	0.5	July 22, 2026	ND	ND	ND	149	43.3	149	192.3	6,640
BS26-15	0.5	July 22, 2026	ND	ND	ND	133	41.8	133	174.8	2,960
BS26-16	0.5	July 22, 2026	ND	ND	ND	35.2	ND	35.2	35.2	2,680
BS26-17	0.5	July 22, 2026	ND	ND	ND	191	55.3	191	246.3	4,600
BS26-18	0.5	July 22, 2026	ND	ND	ND	537	157	537	694	6,960
BS26-19	0.5	July 22, 2026	ND	ND	ND	229	51.2	229	280.2	6,240
BS26-20	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	4,880
BS26-21	0.5	July 22, 2026	ND	ND	ND	ND	ND	ND	ND	3,560
BS26-22	0.5	July 22, 2026	ND	ND	ND	14.4	ND	14.4	14.4	3,560
BS26-23	0.5	July 22, 2026	ND	ND	ND	99.1	19.7	99.1	118.8	3,880
BS26-24	0.5	July 22, 2026	ND	ND	ND	37.5	ND	37.5	37.5	2,720
BS26-25	0.5	July 22, 2026	ND	ND	ND	41	ND	41	41	3,400
BS26-26	0.5	July 22, 2026	ND	ND	ND	32.5	ND	32.5	32.5	2,240
BS26-27	0.5	July 22, 2026	ND	ND	ND	395	75.8	395	470.8	3,280
BS26-28	0.5	July 22, 2026	ND	ND	ND	806	173	806	979	6,240
BS26-29	0.5	July 23, 2026	ND	ND	ND	217	50.3	217	267.3	4,160
BS26-30	0.5	July 23, 2026	ND	ND	ND	266	63.2	266	329.2	3,040
BS26-31	0.5	July 23, 2026	ND	ND	ND	442	102.0	442	544	3,680
BS26-32	0.5	July 23, 2026	ND	ND	ND	192	41.7	192	233.7	2,760
BS26-33	0.5	July 23, 2026	ND	ND	ND	56.3	ND	56.3	56.3	2,520
BS26-34	0.5	July 23, 2026	ND	ND	ND	140	34.8	140	174.8	3,320
BS26-35	0.5	July 23, 2026	ND	ND	ND	29.3	ND	29.3	29.3	1,200
BS26-36	0.5	July 23, 2026	ND	ND	ND	345	92.8	345	437.8	4,440
BS26-37	0.5	July 23, 2026	ND	ND	ND	164	41.8	164	205.8	4,560

Table 4. Confirmatory Sample Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater >100 feet bgs										
BS26-38	0.5	July 23, 2026	ND	ND	ND	932	858	932	1,790	1,760
BS26-39	0.5	July 23, 2026	ND	ND	ND	444	420	444	864	1,870
BS26-40	0.5	July 23, 2026	ND	ND	ND	75.5	57.6	75.5	133.1	2,050
BS26-41	0.5	July 23, 2026	ND	ND	ND	13.4	ND	13.4	13.4	1,410
BS26-42	0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	736
BS26-43	0.5	July 23, 2026	ND	ND	ND	26	ND	26	26	1,310
BS26-44	0.5	July 23, 2026	ND	ND	ND	404	ND	404	404	1,470
BS26-45	0.5	July 23, 2026	ND	ND	ND	11.4	ND	11.4	11.4	1,380
BS26-46	0.5	July 23, 2026	ND	ND	ND	386	76.9	386	462.9	3,360
BS26-47	0.5	July 23, 2026	ND	ND	ND	82.0	18.6	82	100.6	3,520
BS26-48	0.5	July 23, 2026	ND	ND	ND	174	50.7	174	224.7	2,000
BS26-49	0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	944
BS26-50	0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	320
Wall Samples										
WS26-01	0-0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	224
WS26-02	0-0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	416
WS26-03	0-0.5	July 23, 2026	ND	ND	ND	ND	ND	ND	ND	496
Backfill										
Backfill 01	N/A	August 5, 2026	ND	ND	ND	ND	ND	ND	ND	16
Backfill 02	N/A	August 5, 2026	ND	ND	ND	ND	ND	ND	ND	16

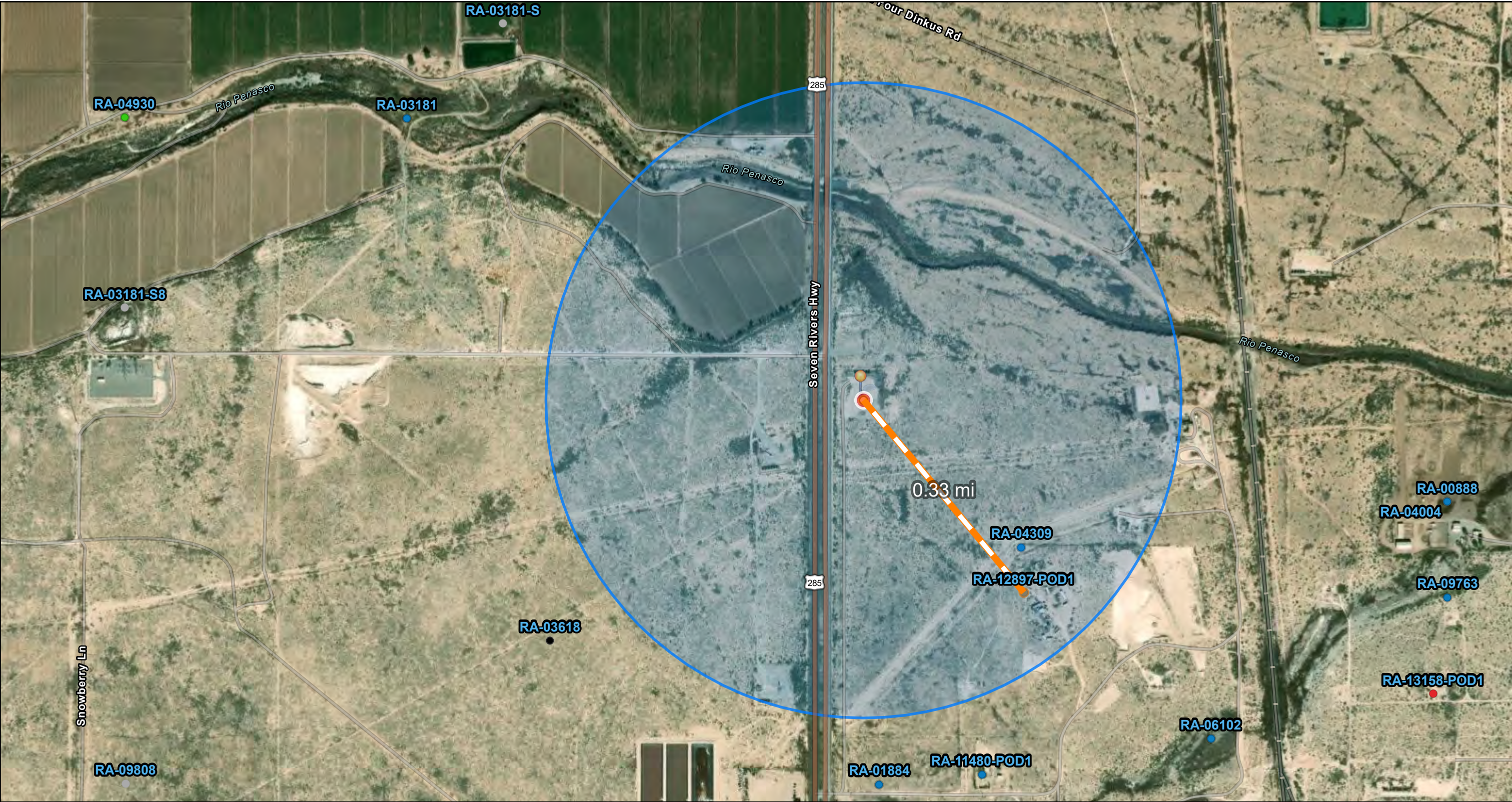
"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

APPENDIX A – Closure Criteria Research Documentation

Sears BSR #002H - OSE POD Locations Map



5/21/2026, 4:47:55 PM

GIS WATERS PODs

- Active
- Pending
- Plugged

- Inactive
- Unknown

World Imagery

Low Resolution 15m Imagery

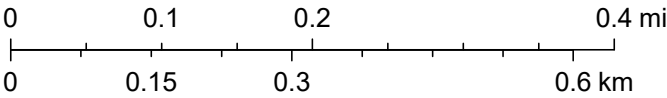
High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

2.4m Resolution Metadata

1:9,576



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Vantor



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

USE DTI SEP 8 2020 10:35

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) RA-12897		WELL TAG ID NO. 2013F9		OSE FILE NO(S). RA-12897			
	WELL OWNER NAME(S) Craig Billips				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO Box 233				CITY Lake Arthur	STATE NM	ZIP 88253	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 44	SECONDS 10.1 ✓ N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
	LONGITUDE 104	23	28.1 W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1632		NAME OF LICENSED DRILLER Caleb Curry			NAME OF WELL DRILLING COMPANY Hopper Pump & Drilling Inc.		
	DRILLING STARTED 8/31/2020	DRILLING ENDED 9/1/2020	DEPTH OF COMPLETED WELL (FT) 180	BORE HOLE DEPTH (FT) 180	DEPTH WATER FIRST ENCOUNTERED (FT) 120			
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 120			
	DRILLING FLUID: ☐ AIR ☒ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	+2	140	8.75	pvc	spline	5	.25	
	140	180	8.75	pvc	spline	5	.25	.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	3	25	9 7/8	3/8 bentonite chip				
	25	180	8.75	8/16 silica sand				

FOR OSE INTERNAL USE

FILE NO. RA-12897	POD NO. 1	TRN NO. 674018787429
LOCATION Dom+SK 18.26.21.141	WELL TAG ID NO. 203F9	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

5. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	RA-12897	POD NO.	1
LOCATION	Dominion 18.26 21.141	TRN NO.	674018
		WELL TAG ID NO.	30BF9
			PAGE 2 OF 2



Sears BSR #002H - 928 ft to Watercourse



May 21, 2026

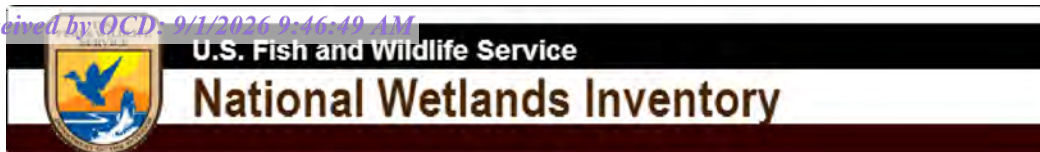
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Sears BSR #002H - 3,422 ft to Pond



May 21, 2026

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

Sears BSR #002H - Nearest Residence

1,909 feet to nearest residence

Legend

1,909 ft

Sears BSR #002H

32.7398567, -104.3948517

7 Rivers Hwy





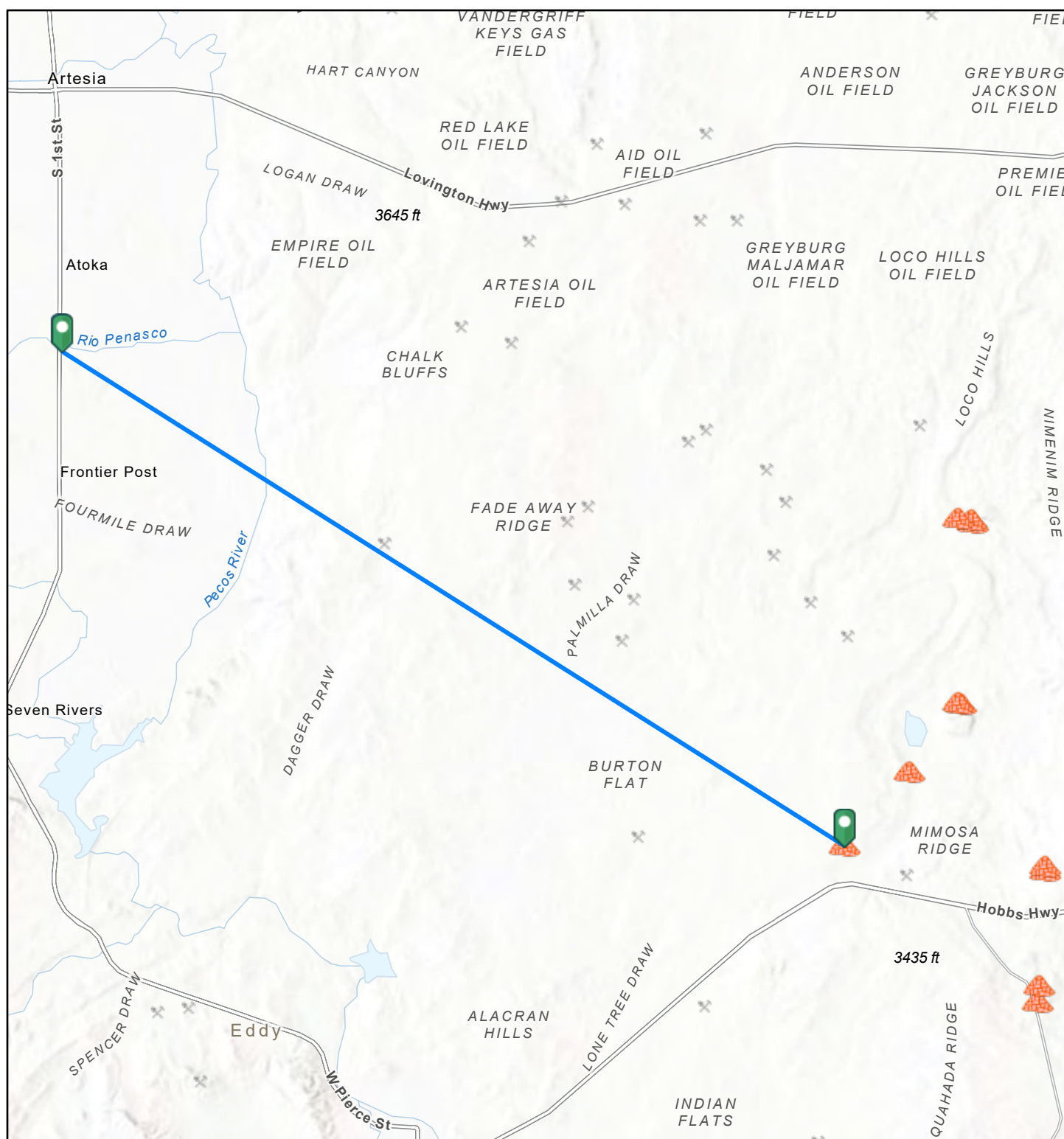
May 21, 2026

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

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

Sears BSR #002H - 132,442 ft from Subsurface Mine

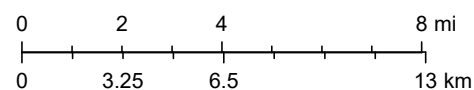


5/21/2026, 4:02:09 PM

1:288,895

Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS

EMNRD MMD GIS Coordinator

Sears BSR #002H

928 feet from nearest FEMA Zone A

-  Sears BSR #002H
-  928 ft
-  FEMA Zone A

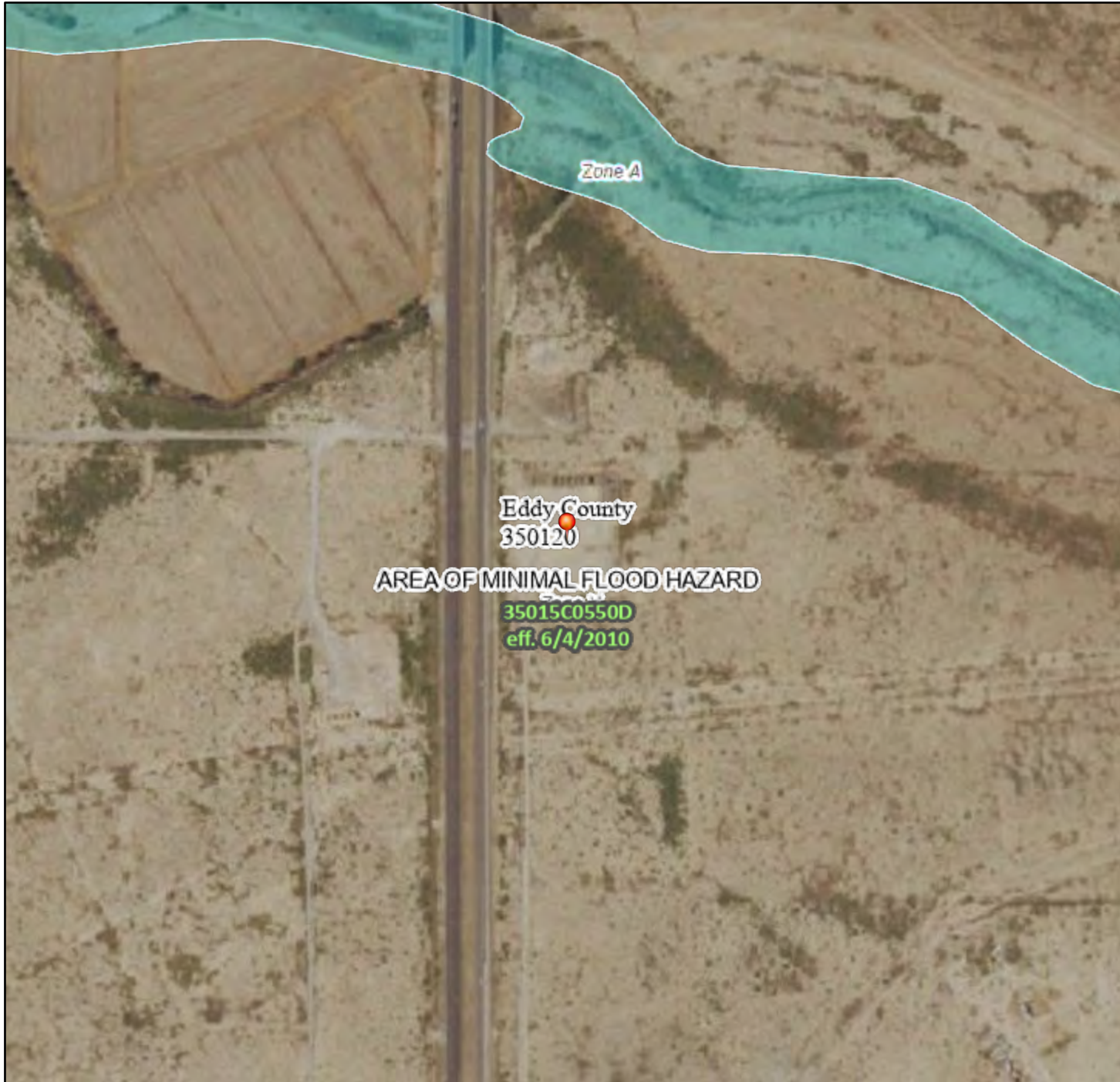


1000 ft

National Flood Hazard Layer FIRMMette



104°24'W 32°44'39"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°23'23"W 32°44'8"N

Released to Imaging: 9/1/2026 2:26:38 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/21/2026 at 8:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX B – Field Reports



Daily Field Log
 Site: Sears BSR #002H
 Client: Riley Exploration Permian, Inc.

07/22/2026

Location: Default Site Location**By: Andrew Ludvik**

Weather	Hot Partly Cloudy Sunny	Contractor	Superior Oilfield Services, LLC
Staff On-site	Andrew Ludvik	Contractor Crew	Paul Garner
Staff From Time	08:20	Equipment On Site	Backhoe
Tailgate meeting conducted	Yes	Incident ID Number	nAPP2614652415

Work Summary:

Excavation of initial footprint, confirmation sampling

Time	Observations
08:50:00	Met with Paul Garner of Superior Oilfield Services upon my arrival. We discussed an unmarked electric line his crew unearthed but did not strike. Spotting with hand tools will be utilized in the areas for underground lines
09:11:27	Discussed with Paul that he'll have his workers (two) use hand tools to dig closer to the well head and equipment.
17:53:12	I collected BS26-01 to -28 at 0.5' bgs. All samples field screened for chlorides. A select number of samples were screened for TPH
17:54:24	All samples were jarred and stored in cooler with ice. They will be sent to lab for further analysis.

Inspector: Andrew Ludvik

Pictures/Attachments

Date: 7/22/2026
 Time: 16:19
 Notes: Initial excavation extent
 Latitude: 32.74024558560922
 Longitude: -104.39575482664728
 Direction: NW



Default Site Location | Lat: 32.74025, Lon: -104.39575 | Azimuth: 302.7° NW, Wed, Jul 22, 2026 16



Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:20
Notes: Initial excavation extent
Latitude: 32.74025700688144
Longitude: -104.39575775335588
Direction: N



Date: 7/22/2026
Time: 16:21
Notes: Initial excavation extent
Latitude: 32.74025700965176
Longitude: -104.39575775406578
Direction: S

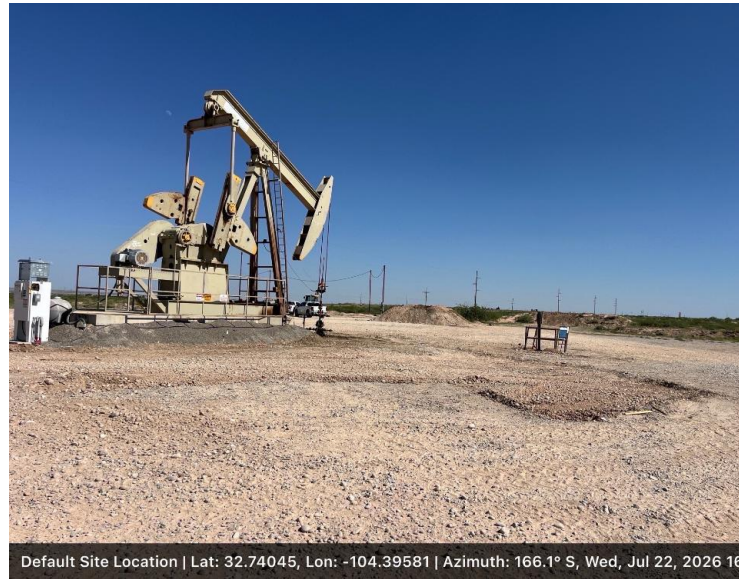




Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:21
Notes: Initial excavation extent
Latitude: 32.74045215766199
Longitude: -104.39580776087298
Direction: S



Date: 7/22/2026
Time: 16:22
Notes:
Latitude: 32.74082195763779
Longitude: -104.39515665968025
Direction: E





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:23
Notes: Area where BS26-01 and -02 were collected
Latitude: 32.740267882658195
Longitude: -104.3957259286052
Direction: SE



Date: 7/22/2026
Time: 16:24
Notes: Area where BS26-03, -04 and -05 were collected
Latitude: 32.74028055555556
Longitude: -104.39572777777778
Direction: W





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:25
Notes: Area where BS26-06 and -07 were collected from
Latitude: 32.739985948459086
Longitude: -104.39455554830319
Direction: S



Date: 7/22/2026
Time: 16:25
Notes: Area where BS26-08 and -09 were collected from
Latitude: 32.73993976815167
Longitude: -104.39449848555016
Direction: W





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:26
Notes: Area where BS26-10 and -11 were collected from
Latitude: 32.73990728534618
Longitude: -104.39457780159411
Direction: W



Date: 7/22/2026
Time: 16:27
Notes: Area where BS26-12 and -13 were collected from
Latitude: 32.74011071498619
Longitude: -104.39498850435174
Direction: SW





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:27
Notes: Area where BS26-14, -15, and -16 were collected from
Latitude: 32.73986198011118
Longitude: -104.3946568016935
Direction: NE



Date: 7/22/2026
Time: 16:29
Notes: Area where BS26-17, -18, and -19 were collected from
Latitude: 32.739847222222224
Longitude: -104.39468333333333
Direction: S





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:30
Notes: Area where BS26-20 and -21 were collected from
Latitude: 32.739841068491245
Longitude: -104.39463493021913
Direction: NW



Date: 7/22/2026
Time: 16:31
Notes: Area where BS26-22 and -23 were collected from
Latitude: 32.73986663075659
Longitude: -104.39475025729217
Direction: E





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:32
Notes: Area where BS26-24 and -25 were collected from
Latitude: 32.73993683827669
Longitude: -104.39475413683783
Direction: W



Date: 7/22/2026
Time: 16:33
Notes: Area where BS26-26, -27 and -28 were collected from
Latitude: 32.739966670081785
Longitude: -104.39472905369884
Direction: SW



Default Site Location | Lat: 32.73997, Lon: -104.39473 | Azimuth: 217.1° SW, Wed, Jul 22, 2026 16



Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/22/2026
Time: 16:35
Notes: Removed material placed on liner
Latitude: 32.740238026816925
Longitude: -104.3957602973153
Direction: N





Daily Field Log
 Site: Sears BSR #002H
 Client: Riley Exploration Permian, Inc.

07/23/2026

Location: Default Site Location**By: Andrew Ludvik**

Weather	Hot Low Wind Partly Cloudy Sunny	Contractor	
Staff On-site	Andrew Ludvik	Contractor Crew	
Staff From Time	07:54	Equipment On Site	
Tailgate meeting conducted	Yes	Incident ID Number	nAPP2614652415

Work Summary:

Confirmation sampling

Time	Observations
15:11:11	On site to continue collecting confirmation samples. I assessed the site for safety and filled out the day's JSA.
18:13:57	I collected BS26-29 to -50 at 0.5' bgs and WS26-01 to -03 a 0-0.5' bgs.
18:14:38	All collected samples were field screened for chlorides and TPH.
18:14:59	All samples were jarred and placed in cooler with ice. They'll be sent to lab for further analysis.

Inspector: Andrew Ludvik

Pictures/Attachments

Date: 7/23/2026
 Time: 16:19
 Notes: Area where BS26-29 was collected
 Latitude: 32.73985555555556
 Longitude: -104.39483611111112
 Direction: N



Default Site Location | Lat: 32.73986, Lon: -104.39484 | Azimuth: 355.5° N, Thu, Jul 23, 2026 16



Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:20
Notes: Area where BS26-30 and -34 were collected
Latitude: 32.739906194650395
Longitude: -104.3948573806364
Direction: N



Date: 7/23/2026
Time: 16:21
Notes: Area where -31 and -32 were collected
Latitude: 32.73991893514322
Longitude: -104.39485947611219
Direction: NW

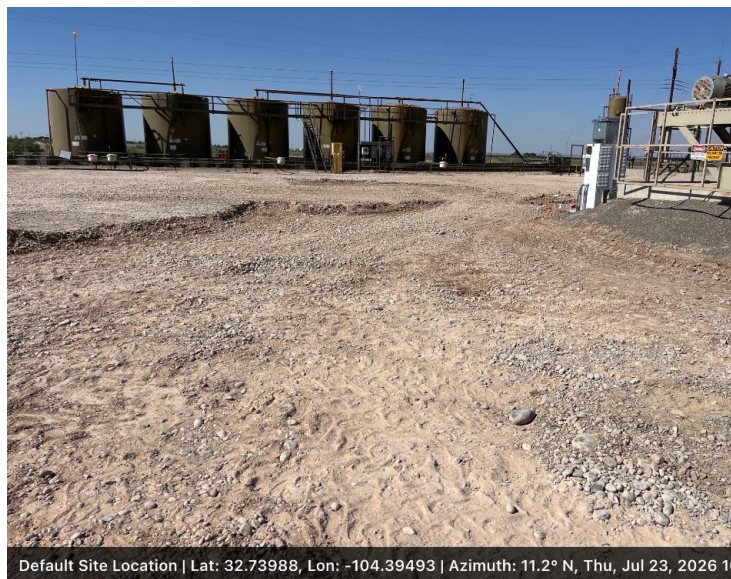




Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:22
Notes: Area where -47, -33 and -46 were collected
Latitude: 32.73987759990881
Longitude: -104.39493153454406
Direction: N



Date: 7/23/2026
Time: 16:23
Notes: Area where BS26-48 and -45 were collected
Latitude: 32.739905113694675
Longitude: -104.39496663076274
Direction: E





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:23
Notes: Area where BS26-49 and -50 were collected
Latitude: 32.740192001564104
Longitude: -104.39567740222016
Direction: NE



Date: 7/23/2026
Time: 16:25
Notes: Area where BS26-35, -36 and -37 were collected
Latitude: 32.73995382086503
Longitude: -104.39487065481991
Direction: NE





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:25
Notes: Area where BS26-44 and -43 were collected
Latitude: 32.740002083622606
Longitude: -104.39490540894157
Direction: N



Date: 7/23/2026
Time: 16:26
Notes: Area where BS26-37 and -38 were collected
Latitude: 32.74003552741633
Longitude: -104.39487129459566
Direction: E





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:26
Notes: Area where BS26-39 was collected
Latitude: 32.740038377263424
Longitude: -104.39486676836795
Direction: N



Date: 7/23/2026
Time: 16:26
Notes: Area where BS26-40 and -41 were collected
Latitude: 32.74020861371675
Longitude: -104.39482536176628
Direction: NE





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:26
Notes: Area where BS26-42 was collected
Latitude: 32.7402166603438
Longitude: -104.39482368538565
Direction: NE



Date: 7/23/2026
Time: 16:27
Notes: Area where WS26-01 was collected
Latitude: 32.74025904820482
Longitude: -104.39547217694738
Direction: S





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:28
Notes: Area where WS26-01 was collected
Latitude: 32.73989333658055
Longitude: -104.39465002695599
Direction: W



Date: 7/23/2026
Time: 16:28
Notes: Area where WS26-01 was collected
Latitude: 32.739880101077496
Longitude: -104.39468741781171
Direction: SE





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:29
Notes: Area where WS26-03 was collected
Latitude: 32.73987882773647
Longitude: -104.39443761492556
Direction: N



Date: 7/23/2026
Time: 16:29
Notes: Area where WS26-02 was collected
Latitude: 32.739838978119764
Longitude: -104.39437901024787
Direction: N

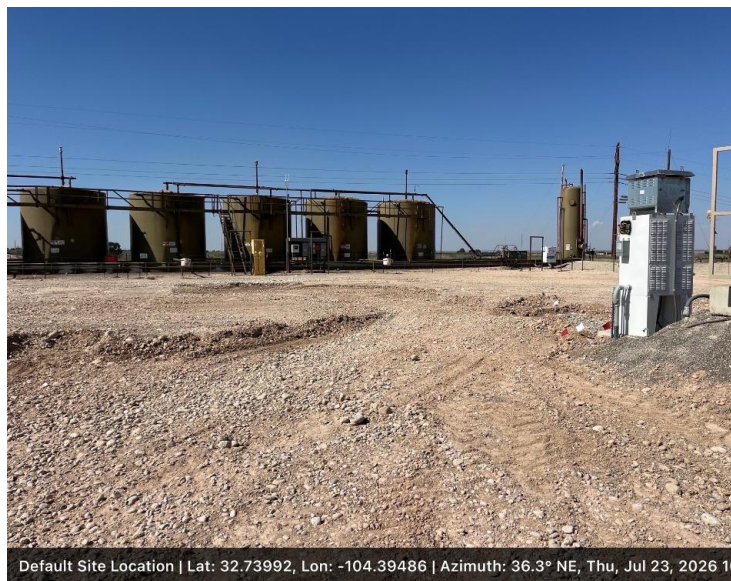




Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:30
Notes: Area where WS26-02 was collected
Latitude: 32.73992222222226
Longitude: -104.39486111111111
Direction: NE



Date: 7/23/2026
Time: 16:30
Notes: Area where WS26-02 was collected
Latitude: 32.74005833333334
Longitude: -104.39485277777779
Direction: N





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:31
Notes: Area where WS26-02 was collected
Latitude: 32.74005276383448
Longitude: -104.39484706572375
Direction: E



Date: 7/23/2026
Time: 16:32
Notes: Area where WS26-03 was collected
Latitude: 32.7400527638661
Longitude: -104.39484706573276
Direction: E





Daily Field Log
Site: Sears BSR #002H
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 7/23/2026
Time: 16:32
Notes: Area where WS26-03 was collected
Latitude: 32.74005445179197
Longitude: -104.39484754716688
Direction: S



Date: 7/23/2026
Time: 16:33
Notes: Area where WS26-03 was collected
Latitude: 32.74016466850321
Longitude: -104.39487967563822
Direction: N



APPENDIX C – Laboratory Data Reports and Chain of Custody Forms



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

June 10, 2026

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SEARS BSR #002H

Enclosed are the results of analyses for samples received by the laboratory on 06/04/26 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	05/30/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 02 @ 4.0' (H263194-01)

BTEX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.89	94.3	2.00	2.32		
Toluene*	<0.050	0.050	06/06/2026	ND	1.95	97.4	2.00	2.04		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	1.89	94.5	2.00	14.3		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	5.85	97.4	6.00	13.7		
Total BTEX	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 80.1 % 47.1-117

Surrogate: 1-Chlorooctadecane 77.4 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 03 @ 4.0' (H263194-02)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.89	94.3	2.00	2.32		
Toluene*	<0.050	0.050	06/06/2026	ND	1.95	97.4	2.00	2.04		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	1.89	94.5	2.00	14.3		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	5.85	97.4	6.00	13.7		
Total BTX	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	13.4	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.8 % 47.1-117

Surrogate: 1-Chlorooctadecane 77.2 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 04 @ 4.0' (H263194-03)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.89	94.3	2.00	2.32		
Toluene*	<0.050	0.050	06/06/2026	ND	1.95	97.4	2.00	2.04		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	1.89	94.5	2.00	14.3		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	5.85	97.4	6.00	13.7		
Total BTEX	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 79.7 % 47.1-117

Surrogate: 1-Chlorooctadecane 78.0 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	06/01/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 05 @ 0.0' (H263194-04)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	0.054	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7680	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	3230	50.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	575	50.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 83.2 % 47.1-117

Surrogate: 1-Chlorooctadecane 108 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	06/01/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 05 @ 2.0' (H263194-05)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	18.4	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 81.5 % 47.1-117

Surrogate: 1-Chlorooctadecane 79.0 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	06/01/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 05 @ 4.0' (H263194-06)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	10.9	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.2 % 47.1-117

Surrogate: 1-Chlorooctadecane 75.4 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 06 @ 0.0' (H263194-07)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1970	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	59.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 85.7 % 47.1-117

Surrogate: 1-Chlorooctadecane 84.9 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 06 @ 2.0' (H263194-08)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 80.9 % 47.1-117

Surrogate: 1-Chlorooctadecane 77.5 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 06 @ 4.0' (H263194-09)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 81.9 % 47.1-117

Surrogate: 1-Chlorooctadecane 80.8 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 07 @ 0.0' (H263194-10)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	233	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	49.6	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.1 % 47.1-117

Surrogate: 1-Chlorooctadecane 82.1 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 07 @ 2.0' (H263194-11)

BTX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64	
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516	
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43	
Total BTX	<0.300	0.300	06/05/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 80.6 % 47.1-117

Surrogate: 1-Chlorooctadecane 76.6 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	06/01/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 07 @ 4.0' (H263194-12)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.3 % 47.1-117

Surrogate: 1-Chlorooctadecane 73.8 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	06/04/2026	Sampling Date:	06/01/2026
Reported:	06/10/2026	Sampling Type:	Soil
Project Name:	SEARS BSR #002H	Sampling Condition:	Cool & Intact
Project Number:	26A - 04150	Sample Received By:	Alyssa Parras
Project Location:	RILEY EXPLORATION PERMIAN		

Sample ID: BH 26 - 08 @ 0.0' (H263194-13)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	196	98.1	200	1.40	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	196	98.1	200	0.327	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 73.4 % 47.1-117

Surrogate: 1-Chlorooctadecane 69.7 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 08 @ 1.0' (H263194-14)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 77.5 % 47.1-117

Surrogate: 1-Chlorooctadecane 76.2 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/01/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 08 @ 2.0' (H263194-15)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.9 % 47.1-117

Surrogate: 1-Chlorooctadecane 77.4 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 21 @ 0.0' (H263194-16)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.6 % 47.1-117

Surrogate: 1-Chlorooctadecane 77.3 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 21 @ 2.0' (H263194-17)

BTX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64	
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516	
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43	
Total BTX	<0.300	0.300	06/05/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 76.1 % 47.1-117

Surrogate: 1-Chlorooctadecane 74.9 % 37.2-119

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 22 @ 0.0' (H263194-18)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/05/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 76.2 % 47.1-117

Surrogate: 1-Chlorooctadecane 73.8 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 22 @ 2.0' (H263194-19)

BTX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64	
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516	
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43	
Total BTX	<0.300	0.300	06/05/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/05/2026	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 72.7 % 47.1-117

Surrogate: 1-Chlorooctadecane 70.9 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 23 @ 0.0' (H263194-20)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/05/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/05/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/05/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/05/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/05/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 70.5 % 47.1-117

Surrogate: 1-Chlorooctadecane 71.5 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 23 @ 2.0' (H263194-21)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/06/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/05/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 77.4 % 47.1-117

Surrogate: 1-Chlorooctadecane 76.1 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 24 @ 0.0' (H263194-22)

BTX 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/06/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	6.61	110	6.00	1.43		
Total BTX	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/05/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 65.0 % 47.1-117

Surrogate: 1-Chlorooctadecane 63.7 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 24 @ 2.0' (H263194-23)

BTEx 8021B		mg/kg		Analyzed By: SK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2026	ND	1.98	99.0	2.00	1.64		
Toluene*	<0.050	0.050	06/06/2026	ND	1.94	96.8	2.00	0.516		
Ethylbenzene*	<0.050	0.050	06/06/2026	ND	2.18	109	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/06/2026	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	06/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/05/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 76.2 % 47.1-117

Surrogate: 1-Chlorooctadecane 74.4 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 25 @ 0.0' (H263194-24)

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	06/08/2026	ND	2.19	110	2.00	0.525		
Toluene*	<0.050	0.050	06/08/2026	ND	2.12	106	2.00	0.819		
Ethylbenzene*	<0.050	0.050	06/08/2026	ND	2.04	102	2.00	1.10		
Total Xylenes*	<0.150	0.150	06/08/2026	ND	6.01	100	6.00	0.861		
Total BTEX	<0.300	0.300	06/08/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: SA					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 77.1 % 47.1-117

Surrogate: 1-Chlorooctadecane 75.1 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/04/2026
 Reported: 06/10/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 06/02/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 26 - 25 @ 2.0' (H263194-25)

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	06/08/2026	ND	2.19	110	2.00	0.525		
Toluene*	<0.050	0.050	06/08/2026	ND	2.12	106	2.00	0.819		
Ethylbenzene*	<0.050	0.050	06/08/2026	ND	2.04	102	2.00	1.10		
Total Xylenes*	<0.150	0.150	06/08/2026	ND	6.01	100	6.00	0.861		
Total BTEX	<0.300	0.300	06/08/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: SA						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/05/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2026	ND	203	102	200	1.16	
DRO >C10-C28*	<10.0	10.0	06/05/2026	ND	208	104	200	3.31	
EXT DRO >C28-C36	<10.0	10.0	06/05/2026	ND					

Surrogate: 1-Chlorooctane 78.2 % 47.1-117

Surrogate: 1-Chlorooctadecane 76.8 % 37.2-119

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to Riley Exploration Permian, Inc)										BILL TO		ANALYSIS REQUEST									
Project Manager: Chance Dixon										P.O. #:											
Address: 3101 Boyd Drive										Company: Riley Exploration Permian, Inc											
City: Carlsbad State: NM Zip: 88220										Attn: Fernando Rodriguez											
Phone #: 575.725.5001 Fax #: Project Owner: Riley										Address: 29 E. Reno Ave., STE 500											
Project #: 26A-04150										City: Oklahoma City											
Project Name: Sears BSR #002H										State: OK Zip: 73104											
Project Location:										Phone #: 575.323.2560											
Sampler Name: J. Rewis										Fax #:											
FOR LAB USE ONLY										PRESERV.		SAMPLING									
Lab I.D.																					
Sample I.D.										(G)RAB OR (C)OMP.											
										# CONTAINERS											
										GROUNDWATER											
										WASTEWATER											
										SOIL											
										OIL											
										SLUDGE											
										OTHER											
										ACID/BASE:											
										ICE / COOL											
										OTHER											
										DATE		TIME									
BH26-07 @ 2.0'										G 1		06.01.26 10:07 X X X									
BH26-07 @ 4.0'										G 1		06.01.26 10:10 X X X									
BH26-08 @ 0.0'										G 1		06.01.26 10:20 X X X									
BH26-08 @ 1.0'										G 1		06.01.26 14:00 X X X									
BH26-08 @ 2.0'										G 1		06.01.26 10:24 X X X									
BH26-21 @ 0.0'										G 1		06.02.26 11:25 X X X									
BH26-21 @ 2.0'										G 1		06.02.26 11:30 X X X									
BH26-22 @ 0.0'										G 1		06.02.26 8:54 X X X									
BH26-22 @ 2.0'										G 1		06.02.26 8:57 X X X									
BH26-23 @ 0.0'										G 1		06.02.26 8:00 X X X									
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Relinquished By: [Signature]										Date: 6-14-26		Received By: [Signature]									
Relinquished By: [Signature]										Time: 1:30 PM		Date: 6-14-26									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C Corrected Temp. °C		Sample Condition Cool ☒ Intact ☐ Yes ☒ No ☐									
FORM-006 R 3.2 10/07/21										CHECKED BY: [Signature]		THERMOMETER ID: 4113 Correction Factor: -0.5C Standard ☒ Bacteria (only) Sample Condition ☒ Cool Intact ☒ Observed Temp. °C Yes ☒ No ☐									
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com										Verbal Result: ☐ Yes ☐ No		Add'l Phone #: 213									
										Please Email Results: Fernando Rodriguez (fernandorodriguez@rileypemian.com) Chance Dixon (cdixon@vertexresource.com), aludvik@vertexresource.com, jrevis@vertexresource.com, permian@vertexresource.com											
										REMARKS: Direct bill to Riley Exploration Permian, Inc											



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to Riley Exploration Permian, Inc)

Project Manager: Chance Dixon

Address: 3101 Boyd Drive

City: Carlsbad **State:** NM **Zip:** 88220

Phone #: 575.725.5001 **Fax #:**

Project #: 26A-04150 **Project Owner:** Riley

Project Name: Sears BSR #002H

Project Location:

Sample Name: J. Rewis

Lab I.D.:

P.O. #:

Company: Riley Exploration Permian, Inc

Attn: Fernando Rodriguez

Address: 29 E. Reno Ave., STE 500

City: Oklahoma City

State: OK **Zip:** 73104

Phone #: 575.323.2560 **Fax #:**

BILL TO

ANALYSIS REQUEST

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	BTEX (8021)		TPH:8015D(GRO / DRO / MRO)		Chloride							
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					OTHER	ACID/BASE	ICE / COOL	OTHER								
BH26-23 @ 2.0'		G 1									06.02.26	8:10	X	X	X								
BH26-24 @ 0.0'		G 1									06.02.26	9:25	X	X	X								
BH26-24 @ 2.0'		G 1									06.02.26	9:30	X	X	X								
BH26-25 @ 0.0'		G 1									06.02.26	9:41	X	X	X								
BH26-25 @ 2.0'		G 1									06.02.26	9:45	X	X	X								

Relinquished By: *[Signature]* **Date:** 6.14.26 **Received By:** *[Signature]* **Date:** 6.14.26

Reiniquished By: *[Signature]* **Date:** 6.14.26 **Received By:** *[Signature]* **Date:** 6.14.26

Delivered By: (Circle One) **Observed Temp. °C** **Corrected Temp. °C**

Sampler - UPS - Bus - Other: *UPS* **Sample Condition** **Checked By:** *[Signature]* **(Initials)**

Turnaround Time: ☒ Standard ☐ Rush **Backlog (only) Sample Condition**

Thermometer ID: #113 **Correction Factor:** -0.3°C **Observed Temp. °C** **Corrected Temp. °C**

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

Please Email Results: Fernando Rodriguez (fernando.rodriguez@rileypermian.com)
 Chance Dixon (cdixon@vertexresource.com, aludvik@vertexresource.com,
 jrewis@vertexresource.com, permian@vertexresource.com)

REMARKS: Direct bill to Riley Exploration Permian, Inc



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

June 04, 2026

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SEARS BSR #002H

Enclosed are the results of analyses for samples received by the laboratory on 06/01/26 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 01 @ 0.0' (H263078-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2026	ND	2.18	109	2.00	2.39	
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17	
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14	
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31	
Total BTEX	<0.300	0.300	06/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	06/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 85.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 01 @ 1.0' (H263078-02)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 92.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 01 @ 2.0' (H263078-03)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 94.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 02 @ 0.0' (H263078-04)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	06/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 93.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 02 @ 2.0' (H263078-05)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 91.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 03 @ 0.0' (H263078-06)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	0.118	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	0.504	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31	GC-NC1	
Total BTX	0.622	0.300	06/03/2026	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	3720	50.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	554	50.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 190 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 03 @ 1.0' (H263078-07)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39	
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17	
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14	
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31	
Total BTX	<0.300	0.300	06/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 66.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 63.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 03 @ 2.0' (H263078-08)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 78.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 04 @ 0.0' (H263078-09)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	685	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	111	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 79.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 04 @ 2.0' (H263078-10)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 80.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/26/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 04 @ 4.0' (H263078-11)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 78.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.1 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 09 @ 0.0' (H263078-12)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.6 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 09 @ 2.0' (H263078-13)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 79.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.9 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 10 @ 0.0' (H263078-14)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 61.5-142

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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 70.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 65.2 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 10 @ 2.0' (H263078-15)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 78.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 12 @ 0.0' (H263078-16)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 61.5-142

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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 78.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 72.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 12 @ 2.0' (H263078-17)

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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTEX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 61.5-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/02/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 66.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 61.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 13 @ 0.0' (H263078-18)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 79.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 13 @ 2.0' (H263078-19)

BTX 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	06/03/2026	ND	2.18	109	2.00	2.39		
Toluene*	<0.050	0.050	06/03/2026	ND	2.08	104	2.00	3.17		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	1.99	99.7	2.00	3.14		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	5.81	96.8	6.00	3.31		
Total BTX	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 72.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 67.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 14 @ 0.0' (H263078-20)

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	06/03/2026	ND	2.08	104	2.00	1.54	
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22	
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764	
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399	
Total BTEx	<0.300	0.300	06/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	199	99.7	200	4.77	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	201	101	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 78.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 72.3 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 14 @ 2.0' (H263078-21)

BTX 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	06/03/2026	ND	2.08	104	2.00	1.54	
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22	
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764	
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399	
Total BTX	<0.300	0.300	06/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	193	96.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	190	95.2	200	0.845	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 62.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 59.7 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/30/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 16 @ 0.0' (H263078-22)

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	06/03/2026	ND	2.08	104	2.00	1.54		
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	193	96.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	190	95.2	200	0.845	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 68.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/30/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 16 @ 2.0' (H263078-23)

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	06/03/2026	ND	2.08	104	2.00	1.54		
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	193	96.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	190	95.2	200	0.845	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 75.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.3 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/30/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 17 @ 0.0' (H263078-24)

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	06/03/2026	ND	2.08	104	2.00	1.54		
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 61.5-142

Chloride, SM4500CI-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	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	193	96.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	190	95.2	200	0.845	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 75.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/01/2026
 Reported: 06/04/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 05/30/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 17 @ 2.0' (H263078-25)

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	06/03/2026	ND	2.08	104	2.00	1.54		
Toluene*	<0.050	0.050	06/03/2026	ND	1.97	98.3	2.00	1.22		
Ethylbenzene*	<0.050	0.050	06/03/2026	ND	2.11	106	2.00	0.764		
Total Xylenes*	<0.150	0.150	06/03/2026	ND	6.45	107	6.00	0.399		
Total BTEx	<0.300	0.300	06/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 61.5-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/02/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2026	ND	193	96.6	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/02/2026	ND	190	95.2	200	0.845	
EXT DRO >C28-C36	<10.0	10.0	06/02/2026	ND					

Surrogate: 1-Chlorooctane 76.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 72.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to Riley Exploration Permian, Inc)

BILL TO

ANALYSIS REQUEST

Project Manager: Chance Dixon

P.O. #:

Address: 3101 Boyd Drive

Company: Riley Exploration Permian, Inc

City: Carlsbad State: NM

Attn: Fernando Rodriguez

Phone #:

Zip: 88220

Address: 29 E. Reno Ave., STE 500

Project #: 26A-04150

Fax #:

City: Oklahoma City

Project Name: Sears BSR #002H

Project Owner: Riley

State: OK Zip: 73104

Project Location:

Phone #: 575.323.2560

Sampler Name: A. Ludvik

Fax #:

FOR LAB USE ONLY

Lab I.D.

MATRIX

PRESERV.

SAMPLING

BTEX (8021)

TPH:8015D(GRO / DRO / MRO)

Chloride

Sample I.D.

1 BH26-01 @ 0.0'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

3 BH26-01 @ 1.0'

G 1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

4 BH26-01 @ 2.0'

G 1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

5 BH26-02 @ 2.0'

G 1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

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6 BH26-02 @ 2.0'

G 1

X

X

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X

X

X

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X

X

X

X

X

X

7 BH26-03 @ 1.0'

G 1

X

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X

X

X

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X

X

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X

X

X

X

8 BH26-03 @ 2.0'

G 1

X

X

X

X

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X

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X

X

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X

X

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9 BH26-04 @ 0.0'

G 1

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X

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X

X

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X

X

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X

X

X

10 BH26-04 @ 2.0'

G 1

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

X

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0402401K

Relinquished By:

Date:

Time:

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to Riley Exploration Permian, Inc)										BILL TO										ANALYSIS REQUEST									
Project Manager: Chance Dixon										P.O. #:																			
Address: 3101 Boyd Drive										Company: Riley Exploration Permian, Inc																			
City: Carlsbad State: NM Zip: 88220										Attn: Fernando Rodriguez																			
Phone #: 575.725.5001 Fax #: 575.725.5001										Address: 29 E. Reno Ave., STE 500																			
Project #: 26A-04150										City: Oklahoma City																			
Project Name: Sears BSR #002H										State: OK Zip: 73104																			
Project Location:										Phone #: 575.323.2560																			
Sampler Name: A. Ludvik										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.										PRESERV.										SAMPLING									
Sample I.D.										MATRIX																			
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										SLUDGE																			
										OTHER :																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER :																			
										DATE																			
										TIME																			
BH26-04 @ 4.0'										X										X									
BH26-09 @ 0.0'										X										X									
BH26-09 @ 2.0'										X										X									
BH26-10 @ 0.0'										X										X									
BH26-10 @ 2.0'										X										X									
BH26-12 @ 0.0'										X										X									
BH26-12 @ 2.0'										X										X									
BH26-13 @ 0.0'										X										X									
BH26-13 @ 2.0'										X										X									
BH26-14 @ 0.0'										X										X									
BH26-14 @ 2.0'										X										X									
BH26-14 @ 4.0'										X										X									
BH26-14 @ 6.0'										X										X									
BH26-14 @ 8.0'										X										X									
BH26-14 @ 10.0'										X										X									
BH26-14 @ 12.0'										X										X									
BH26-14 @ 14.0'										X										X									
BH26-14 @ 16.0'										X										X									
BH26-14 @ 18.0'										X										X									
BH26-14 @ 20.0'										X										X									
BH26-14 @ 22.0'										X										X									
BH26-14 @ 24.0'										X										X									
BH26-14 @ 26.0'										X										X									
BH26-14 @ 28.0'										X										X									
BH26-14 @ 30.0'										X										X									
BH26-14 @ 32.0'										X										X									
BH26-14 @ 34.0'										X										X									
BH26-14 @ 36.0'										X										X									
BH26-14 @ 38.0'										X										X									
BH26-14 @ 40.0'										X										X									
BH26-14 @ 42.0'										X										X									
BH26-14 @ 44.0'										X										X									
BH26-14 @ 46.0'										X										X									
BH26-14 @ 48.0'										X										X									
BH26-14 @ 50.0'										X										X									
BH26-14 @ 52.0'										X										X									
BH26-14 @ 54.0'										X										X									
BH26-14 @ 56.0'										X										X									
BH26-14 @ 58.0'										X										X									
BH26-14 @ 60.0'										X										X									
BH26-14 @ 62.0'										X										X									
BH26-14 @ 64.0'										X										X									
BH26-14 @ 66.0'										X										X									
BH26-14 @ 68.0'										X										X									
BH26-14 @ 70.0'										X										X									
BH26-14 @ 72.0'										X										X									
BH26-14 @ 74.0'										X										X									
BH26-14 @ 76.0'										X										X									
BH26-14 @ 78.0'										X										X									
BH26-14 @ 80.0'										X										X									
BH26-14 @ 82.0'										X										X									
BH26-14 @ 84.0'										X										X									
BH26-14 @ 86.0'										X										X									
BH26-14 @ 88.0'										X										X									
BH26-14 @ 90.0'										X										X									
BH26-14 @ 92.0'										X										X									
BH26-14 @ 94.0'										X										X									
BH26-14 @ 96.0'										X										X									
BH26-14 @ 98.0'										X										X									
BH26-14 @ 100.0'										X										X									
BH26-14 @ 102.0'										X										X									
BH26-14 @ 104.0'										X										X									
BH26-14 @ 106.0'										X										X									
BH26-14 @ 108.0'										X										X									
BH26-14 @ 110.0'										X										X									
BH26-14 @ 112.0'										X										X									
BH26-14 @ 114.0'										X										X									
BH26-14 @ 116.0'										X										X									
BH26-14 @ 118.0'										X										X									
BH26-14 @ 120.0'										X										X									
BH26-14 @ 122.0'										X										X									
BH26-14 @ 124.0'																													



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to Riley Exploration Permian, Inc)

BILL TO

ANALYSIS REQUEST

Project Manager: Chance Dixon

Address: 3101 Boyd Drive

City: Carlsbad State: NM

Phone #: 575.725.5001

Project #: 26A-04150

Project Name: Sears BSR #002H

Project Location:

Sampler Name: A. Ludvik

FOR LAB USE ONLY

Lab I.D.

P.O. #:

Company: Riley Exploration Permian, Inc

Attn: Fernando Rodriguez

Address: 29 E. Reno Ave., STE 500

City: Oklahoma City

State: OK Zip: 73104

Phone #: 575.323.2560

Fax #:

PREP. PRESERV. SAMPLING

Sample I.D.

H263078

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX (8021)

TPH:8015D(GRO / DRO / MRO)

Chloride

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Relinquished By:

Date: 09-01-2026

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 11/50

Received By:

Please Email Results: Fernando Rodriguez (fernando@rileypermian.com), Chance Dixon (cdixon@vertexresource.com), aludvik@vertexresource.com, jrewis@vertexresource.com, permian@vertexresource.com

REMARKS: Direct bill to Riley Exploration Permian, Inc

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact ☐ Yes ☒ No

CHECKED BY: (Initials)

Thermometer Time: ☒ Standard ☐ Rush ☐ Cool Intact ☒ Observed Temp. °C

Bacteria (only) Sample Condition

Thermometer ID: #146

Correction Factor: +0.1°C

Yes ☐ No ☐ Corrected Temp. °C



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

July 29, 2026

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SEARS BSR #002H

Enclosed are the results of analyses for samples received by the laboratory on 07/23/26 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS26 - 01 0.5'	H264162-01	Soil	22-Jul-26 09:05	23-Jul-26 15:00
BS26 - 02 0.5'	H264162-02	Soil	22-Jul-26 09:08	23-Jul-26 15:00
BS26 - 03 0.5'	H264162-03	Soil	22-Jul-26 09:10	23-Jul-26 15:00
BS26 - 04 0.5'	H264162-04	Soil	22-Jul-26 09:13	23-Jul-26 15:00
BS26 - 05 0.5'	H264162-05	Soil	22-Jul-26 09:15	23-Jul-26 15:00
BS26 - 06 0.5'	H264162-06	Soil	22-Jul-26 09:18	23-Jul-26 15:00
BS26 - 07 0.5'	H264162-07	Soil	22-Jul-26 09:20	23-Jul-26 15:00
BS26 - 08 0.5'	H264162-08	Soil	22-Jul-26 09:23	23-Jul-26 15:00
BS26 - 09 0.5'	H264162-09	Soil	22-Jul-26 09:25	23-Jul-26 15:00
BS26 - 10 0.5'	H264162-10	Soil	22-Jul-26 09:30	23-Jul-26 15:00
BS26 - 11 0.5'	H264162-11	Soil	22-Jul-26 09:40	23-Jul-26 15:00
BS26 - 12 0.5'	H264162-12	Soil	22-Jul-26 09:45	23-Jul-26 15:00
BS26 - 13 0.5'	H264162-13	Soil	22-Jul-26 09:50	23-Jul-26 15:00
BS26 - 14 0.5'	H264162-14	Soil	22-Jul-26 09:55	23-Jul-26 15:00
BS26 - 15 0.5'	H264162-15	Soil	22-Jul-26 10:00	23-Jul-26 15:00
BS26 - 16 0.5'	H264162-16	Soil	22-Jul-26 10:05	23-Jul-26 15:00
BS26 - 17 0.5'	H264162-17	Soil	22-Jul-26 10:10	23-Jul-26 15:00
BS26 - 18 0.5'	H264162-18	Soil	22-Jul-26 10:15	23-Jul-26 15:00
BS26 - 19 0.5'	H264162-19	Soil	22-Jul-26 10:20	23-Jul-26 15:00
BS26 - 20 0.5'	H264162-20	Soil	22-Jul-26 10:23	23-Jul-26 15:00
BS26 - 21 0.5'	H264162-21	Soil	22-Jul-26 10:25	23-Jul-26 15:00
BS26 - 22 0.5'	H264162-22	Soil	22-Jul-26 10:30	23-Jul-26 15:00
BS26 - 23 0.5'	H264162-23	Soil	22-Jul-26 11:00	23-Jul-26 15:00
BS26 - 24 0.5'	H264162-24	Soil	22-Jul-26 11:05	23-Jul-26 15:00
BS26 - 25 0.5'	H264162-25	Soil	22-Jul-26 11:10	23-Jul-26 15:00
BS26 - 26 0.5'	H264162-26	Soil	22-Jul-26 11:15	23-Jul-26 15:00
BS26 - 27 0.5'	H264162-27	Soil	22-Jul-26 14:50	23-Jul-26 15:00

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NAReported:
29-Jul-26 12:18

BS26 - 28 0.5'

H264162-28

Soil

22-Jul-26 14:55

23-Jul-26 15:00

CASE NARRATIVE:

No labels with lot numbers on sample containers for traceability.

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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 01 0.5'**H264162-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5280		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.7-129 6072420 JH 28-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 86.8 % 48-117 6072413 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 81.9 % 39-120 6072413 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 02 0.5'**H264162-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5600		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		70.7-129	6072420	JH	28-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			82.6 %		48-117	6072413	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			76.6 %		39-120	6072413	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 03 0.5'**H264162-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4880		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		70.7-129	6072420	JH	28-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			77.0 %		48-117	6072413	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			71.0 %		39-120	6072413	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 04 0.5'**H264162-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4000		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		70.7-129	6072420	JH	28-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			83.5 %		48-117	6072413	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			79.5 %		39-120	6072413	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 05 0.5'**H264162-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4400		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.7-129 6072420 JH 28-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 80.8 % 48-117 6072413 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 77.7 % 39-120 6072413 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 06 0.5'**H264162-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3040		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.7-129 6072420 JH 28-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 83.7 % 48-117 6072413 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 76.9 % 39-120 6072413 JF 26-Jul-26 8015B

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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 07 0.5'**H264162-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2520		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.7-129 6072420 JH 28-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 93.3 % 48-117 6072413 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 85.3 % 39-120 6072413 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 08 0.5'**H264162-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5280		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	70.7-129	6072420	JH	28-Jul-26	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
DRO >C10-C28*	12.3	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B

Surrogate: 1-Chlorooctane	93.6 %	48-117	6072413	JF	27-Jul-26	8015B
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Surrogate: 1-Chlorooctadecane	88.0 %	39-120	6072413	JF	27-Jul-26	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 09 0.5'**H264162-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4720		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	119 %	70.7-129	6072420	JH	28-Jul-26	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B

Surrogate: 1-Chlorooctane	76.4 %	48-117	6072413	JF	27-Jul-26	8015B
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Surrogate: 1-Chlorooctadecane	72.4 %	39-120	6072413	JF	27-Jul-26	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 10 0.5'**H264162-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3480		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.7-129 6072420 JH 28-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	28.6		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane 87.8 % 48-117 6072413 JF 27-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 83.5 % 39-120 6072413 JF 27-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 11 0.5'**H264162-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1410		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	117 %	70.7-129	6072420	JH	28-Jul-26	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B

Surrogate: 1-Chlorooctane	86.2 %	48-117	6072413	JF	27-Jul-26	8015B
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Surrogate: 1-Chlorooctadecane	79.6 %	39-120	6072413	JF	27-Jul-26	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 12 0.5'**H264162-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3240		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Toluene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6072420	JH	28-Jul-26	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6072420	JH	28-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	119 %	70.7-129	6072420	JH	28-Jul-26	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
DRO >C10-C28*	16.1	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B

Surrogate: 1-Chlorooctane	81.7 %	48-117	6072413	JF	27-Jul-26	8015B
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Surrogate: 1-Chlorooctadecane	75.7 %	39-120	6072413	JF	27-Jul-26	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 13 0.5'**H264162-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3680		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.8 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.0 %		48-117	6072413	JF	27-Jul-26	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			71.3 %		39-120	6072413	JF	27-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 14 0.5'**H264162-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6640		16.0	mg/kg	4	6072602	KH	27-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.9 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	149		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	43.3		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane			85.8 %		48-117	6072413	JF	27-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			85.5 %		39-120	6072413	JF	27-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 15 0.5'**H264162-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2960		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	133		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	41.8		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane 84.8 % 48-117 6072413 JF 27-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 84.0 % 39-120 6072413 JF 27-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 16 0.5'**H264162-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2680		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.9 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	35.2		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane			83.8 %		48-117	6072413	JF	27-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			79.1 %		39-120	6072413	JF	27-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 17 0.5'**H264162-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4600		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	191		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	55.3		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane 87.2 % 48-117 6072413 JF 27-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 90.8 % 39-120 6072413 JF 27-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 18 0.5'**H264162-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6960		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.4 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
DRO >C10-C28*	537		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	157		10.0	mg/kg	1	6072413	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane			83.6 %		48-117	6072413	JF	27-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			95.0 %		39-120	6072413	JF	27-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 19 0.5'**H264162-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6240		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.7 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	229		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	51.2		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			89.4 %		48-117	6072414	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		39-120	6072414	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 20 0.5'**H264162-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4880		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 73.1 % 48-117 6072414 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 67.1 % 39-120 6072414 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 21 0.5'**H264162-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3560		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.7 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			74.9 %		48-117	6072414	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			70.7 %		39-120	6072414	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 22 0.5'**H264162-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3560		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.7 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	14.4		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			77.7 %		48-117	6072414	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			71.7 %		39-120	6072414	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 23 0.5'**H264162-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3880		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	99.1		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	19.7		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 80.0 % 48-117 6072414 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 85.4 % 39-120 6072414 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 24 0.5'**H264162-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2720		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	37.5		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane 81.6 % 48-117 6072414 JF 26-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 80.4 % 39-120 6072414 JF 26-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 25 0.5'**H264162-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3400		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.7 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	41.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			79.0 %		48-117	6072414	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			80.0 %		39-120	6072414	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 26 0.5'**H264162-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2240		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.3 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
DRO >C10-C28*	32.5		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6072414	JF	26-Jul-26	8015B	

Surrogate: 1-Chlorooctane			80.4 %		48-117	6072414	JF	26-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			80.0 %		39-120	6072414	JF	26-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 27 0.5'**H264162-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3280		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 70.7-129 6072421 JH 27-Jul-26 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	
DRO >C10-C28*	395		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	75.8		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane 92.4 % 48-117 6072414 JF 27-Jul-26 8015B

Surrogate: 1-Chlorooctadecane 148 % 39-120 6072414 JF 27-Jul-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

BS26 - 28 0.5'**H264162-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6240		16.0	mg/kg	4	6072603	ED	26-Jul-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6072421	JH	27-Jul-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6072421	JH	27-Jul-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.3 %		70.7-129	6072421	JH	27-Jul-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	
DRO >C10-C28*	806		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	
EXT DRO >C28-C36	173		10.0	mg/kg	1	6072414	JF	27-Jul-26	8015B	

Surrogate: 1-Chlorooctane			84.1 %		48-117	6072414	JF	27-Jul-26	8015B	
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Surrogate: 1-Chlorooctadecane			106 %		39-120	6072414	JF	27-Jul-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6072602 - 1:4 DI Water**Blank (6072602-BLK1)**

Prepared: 26-Jul-26 Analyzed: 27-Jul-26

Chloride	ND	16.0	mg/kg						
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LCS (6072602-BS1)

Prepared: 26-Jul-26 Analyzed: 27-Jul-26

Chloride	400	16.0	mg/kg	400	100	80-120			
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LCS Dup (6072602-BSD1)

Prepared: 26-Jul-26 Analyzed: 27-Jul-26

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20	
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Batch 6072603 - 1:4 DI Water**Blank (6072603-BLK1)**

Prepared & Analyzed: 26-Jul-26

Chloride	ND	16.0	mg/kg						
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LCS (6072603-BS1)

Prepared & Analyzed: 26-Jul-26

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (6072603-BSD1)

Prepared & Analyzed: 26-Jul-26

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6072420 - Volatiles**Blank (6072420-BLK1)**

Prepared: 24-Jul-26 Analyzed: 28-Jul-26

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.1	70.7-129			

LCS (6072420-BS1)

Prepared: 24-Jul-26 Analyzed: 28-Jul-26

Benzene	1.92	0.050	mg/kg	2.00		96.2	93.2-121			
Toluene	1.94	0.050	mg/kg	2.00		97.0	88.7-117			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	81.4-123			
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	76.3-126			
o-Xylene	2.13	0.050	mg/kg	2.00		107	76.2-125			
Total Xylenes	6.42	0.150	mg/kg	6.00		107	76.6-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	70.7-129			

LCS Dup (6072420-BSD1)

Prepared: 24-Jul-26 Analyzed: 28-Jul-26

Benzene	1.96	0.050	mg/kg	2.00		98.1	93.2-121	1.93	7.62	
Toluene	1.95	0.050	mg/kg	2.00		97.7	88.7-117	0.738	9.57	
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	81.4-123	0.687	11	
m,p-Xylene	4.30	0.100	mg/kg	4.00		107	76.3-126	0.115	11.2	
o-Xylene	2.10	0.050	mg/kg	2.00		105	76.2-125	1.46	11	
Total Xylenes	6.40	0.150	mg/kg	6.00		107	76.6-125	0.407	11.1	
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	70.7-129			

Batch 6072421 - Volatiles**Blank (6072421-BLK1)**

Prepared: 24-Jul-26 Analyzed: 27-Jul-26

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6072421 - Volatiles**Blank (6072421-BLK1)**

Prepared: 24-Jul-26 Analyzed: 27-Jul-26

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.5	70.7-129			

LCS (6072421-BS1)

Prepared: 24-Jul-26 Analyzed: 27-Jul-26

Benzene	2.19	0.050	mg/kg	2.00		109	93.2-121			
Toluene	2.15	0.050	mg/kg	2.00		107	88.7-117			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	81.4-123			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.0	76.3-126			
o-Xylene	1.96	0.050	mg/kg	2.00		98.0	76.2-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	76.6-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0455		mg/kg	0.0500		90.9	70.7-129			

LCS Dup (6072421-BS1)

Prepared: 24-Jul-26 Analyzed: 27-Jul-26

Benzene	2.22	0.050	mg/kg	2.00		111	93.2-121	1.35	7.62	
Toluene	2.14	0.050	mg/kg	2.00		107	88.7-117	0.135	9.57	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	81.4-123	1.41	11	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.4	76.3-126	1.39	11.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.4	76.2-125	1.40	11	
Total Xylenes	5.97	0.150	mg/kg	6.00		99.4	76.6-125	1.39	11.1	
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.1	70.7-129			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6072413 - General Prep - Organics**Blank (6072413-BLK1)**

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	48-117		
Surrogate: 1-Chlorooctadecane	44.0		mg/kg	50.0		87.9	39-120		

LCS (6072413-BS1)

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	202	10.0	mg/kg	200		101	80.3-117		
DRO >C10-C28	220	10.0	mg/kg	200		110	73.6-125		
Total TPH C6-C28	422	10.0	mg/kg	400		105	78.1-120		
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	48-117		
Surrogate: 1-Chlorooctadecane	47.7		mg/kg	50.0		95.4	39-120		

LCS Dup (6072413-BS1)

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	202	10.0	mg/kg	200		101	80.3-117	0.203	7.91
DRO >C10-C28	219	10.0	mg/kg	200		109	73.6-125	0.543	9.09
Total TPH C6-C28	421	10.0	mg/kg	400		105	78.1-120	0.185	8.12
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	48-117		
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.6	39-120		

Batch 6072414 - General Prep - Organics**Blank (6072414-BLK1)**

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	48-117		
Surrogate: 1-Chlorooctadecane	44.0		mg/kg	50.0		87.9	39-120		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD NM, 88220

Project: SEARS BSR #002H
Project Number: 26A - 04150
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
29-Jul-26 12:18

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6072414 - General Prep - Organics**LCS (6072414-BS1)**

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	192	10.0	mg/kg	200		96.0	80.3-117			
DRO >C10-C28	184	10.0	mg/kg	200		91.9	73.6-125			
Total TPH C6-C28	376	10.0	mg/kg	400		94.0	78.1-120			
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	48-117			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.6	39-120			

LCS Dup (6072414-BSD1)

Prepared: 24-Jul-26 Analyzed: 26-Jul-26

GRO C6-C10	188	10.0	mg/kg	200		94.0	80.3-117	2.19	7.91	
DRO >C10-C28	173	10.0	mg/kg	200		86.7	73.6-125	5.77	9.09	
Total TPH C6-C28	361	10.0	mg/kg	400		90.4	78.1-120	3.92	8.12	
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	48-117			
Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.3	39-120			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 38 of 40



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Verrex Resource Services (Direct Bill to Riley Exploration Permian, Inc)						BILL TO						ANALYSIS REQUEST					
Project Manager: Chance Dixon						P.O. #:											
Address: 3101 Boyd Drive						Company: Riley Exploration Permian, Inc											
City: Carlsbad State: NM Zip: 88220						Attn: Fernando Rodriguez											
Phone #: 575.725.5001 Fax #:						Address: 29 E. Reno Ave., STE 500											
Project #: 26A-04150 Project Owner: Riley City: Oklahoma City						State: OK Zip: 73104											
Project Name: Sears BSR #002H Phone #: 575.323.2560						Fax #:											
Sample Name: A. Ludvik						PRESERV.						SAMPLING					
Lab I.D.						MATRIX											
Sample I.D.						(G)RAB OR (C)OMP.											
						# CONTAINERS											
BS26-11 0.5'						GROUNDWATER											
						WASTEWATER											
						SOIL											
						OIL											
						SLUDGE											
						OTHER :											
						ACID/BASE:											
						ICE / COOL											
						OTHER :											
						DATE						TIME					
BS26-12 0.5'						X						X					
BS26-13 0.5'						X						X					
BS26-14 0.5'						X						X					
BS26-15 0.5'						X						X					
BS26-16 0.5'						X						X					
BS26-17 0.5'						X						X					
BS26-18 0.5'						X						X					
BS26-19 0.5'						X						X					
BS26-20 0.5'						X						X					
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Relinquished By: [Signature]						Received By: [Signature]						Verbal Result: ☐ Yes ☒ No Add'l Phone #:					
Time: 7:23:26						Date: 7-23-26						Please Email Results: Fernando Rodriguez (fernandorodriguez@rileypemian.com)					
Relinquished By: [Signature]						Received By: [Signature]						Chance Dixon (cdixon@vertexresource.com), aludvik@vertexresource.com, jrewis@vertexresource.com					
Date: 7-23-26						Time: 15:00						REMARKS: Direct bill to Riley Exploration Permian, Inc					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:						Observed Temp. °C Corrected Temp. °C						Turnaround Time: Standard ☒ Rush ☐					
Cool Intact ☒ No ☐						Checked BY: [Signature] (Initials)						Thermometer ID #113 Correction Factor -0.5°C					
Cool Intact ☒ No ☐						Bacteria (only) Sample Condition						Yes ☐ No ☐					
Cool Intact ☒ No ☐						Observed Temp. °C						Corrected Temp. °C					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 40 of 40



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

August 03, 2026

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: SEARS BSR #002H

Enclosed are the results of analyses for samples received by the laboratory on 07/27/26 13:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 29 0.5' (H264226-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2026	ND	2.14	107	2.00	1.12	
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13	
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79	
Total BTEX	<0.300	0.300	07/31/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/31/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	182	90.8	200	1.06	
DRO >C10-C28*	217	10.0	07/31/2026	ND	183	91.6	200	1.32	
EXT DRO >C28-C36	50.3	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 91.2 % 48-117

Surrogate: 1-Chlorooctadecane 95.4 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 30 0.5' (H264226-02)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	182	90.8	200	1.06	
DRO >C10-C28*	266	10.0	07/31/2026	ND	183	91.6	200	1.32	
EXT DRO >C28-C36	63.2	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 94.5 % 48-117

Surrogate: 1-Chlorooctadecane 101 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 31 0.5' (H264226-03)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	182	90.8	200	1.06	
DRO >C10-C28*	442	10.0	07/31/2026	ND	183	91.6	200	1.32	
EXT DRO >C28-C36	102	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 78.9 % 48-117

Surrogate: 1-Chlorooctadecane 94.5 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 32 0.5' (H264226-04)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	182	90.8	200	1.06	
DRO >C10-C28*	192	10.0	07/31/2026	ND	183	91.6	200	1.32	
EXT DRO >C28-C36	41.7	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 84.2 % 48-117

Surrogate: 1-Chlorooctadecane 88.6 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 33 0.5' (H264226-05)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	182	90.8	200	1.06	
DRO >C10-C28*	56.3	10.0	07/31/2026	ND	183	91.6	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 81.1 % 48-117

Surrogate: 1-Chlorooctadecane 80.7 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 34 0.5' (H264226-06)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	140	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	34.8	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 95.4 % 48-117

Surrogate: 1-Chlorooctadecane 91.8 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 35 0.5' (H264226-07)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	29.3	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 98.0 % 48-117

Surrogate: 1-Chlorooctadecane 92.8 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 36 0.5' (H264226-08)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEx	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4440	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	345	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	92.8	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 99.2 % 48-117

Surrogate: 1-Chlorooctadecane 109 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 37 0.5' (H264226-09)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	164	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	41.8	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 95.3 % 48-117

Surrogate: 1-Chlorooctadecane 94.2 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 38 0.5' (H264226-10)

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	07/31/2026	ND	2.14	107	2.00	1.12	
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13	
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79	
Total BTEx	<0.300	0.300	07/31/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	07/31/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	932	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	858	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 101 % 48-117

Surrogate: 1-Chlorooctadecane 94.0 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 39 0.5' (H264226-11)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12	
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13	
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79	
Total BTX	<0.300	0.300	07/31/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	444	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	420	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 91.7 % 48-117

Surrogate: 1-Chlorooctadecane 87.9 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 40 0.5' (H264226-12)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2050	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	75.5	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	57.6	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 99.8 % 48-117

Surrogate: 1-Chlorooctadecane 94.4 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 41 0.5' (H264226-13)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: ED						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	13.4	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 103 % 48-117

Surrogate: 1-Chlorooctadecane 95.9 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 42 0.5' (H264226-14)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEx	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	07/31/2026	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 70.9 % 48-117

Surrogate: 1-Chlorooctadecane 65.2 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 43 0.5' (H264226-15)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	26.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 81.7 % 48-117

Surrogate: 1-Chlorooctadecane 75.0 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 44 0.5' (H264226-16)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	404	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 78.2 % 48-117

Surrogate: 1-Chlorooctadecane 83.9 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 45 0.5' (H264226-17)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	11.4	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 85.2 % 48-117

Surrogate: 1-Chlorooctadecane 77.2 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 46 0.5' (H264226-18)

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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTEX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	386	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	76.9	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 77.4 % 48-117

Surrogate: 1-Chlorooctadecane 84.7 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 47 0.5' (H264226-19)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12	
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21	
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13	
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79	
Total BTX	<0.300	0.300	07/31/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	82.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	18.6	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 85.8 % 48-117

Surrogate: 1-Chlorooctadecane 82.2 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 48 0.5' (H264226-20)

BTX 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	07/31/2026	ND	2.14	107	2.00	1.12		
Toluene*	<0.050	0.050	07/31/2026	ND	2.04	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.11	105	2.00	3.13		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.14	102	6.00	3.79		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	174	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	50.7	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 81.2 % 48-117

Surrogate: 1-Chlorooctadecane 80.0 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 49 0.5' (H264226-21)

BTX 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	07/31/2026	ND	2.45	122	2.00	11.1		
Toluene*	<0.050	0.050	07/31/2026	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.32	116	2.00	14.6		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.80	113	6.00	14.8		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 70.7-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 84.8 % 48-117

Surrogate: 1-Chlorooctadecane 78.4 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BS26 - 50 0.5' (H264226-22)

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	07/31/2026	ND	2.45	122	2.00	11.1		
Toluene*	<0.050	0.050	07/31/2026	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.32	116	2.00	14.6		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.80	113	6.00	14.8		
Total BTEx	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 87.5 % 48-117

Surrogate: 1-Chlorooctadecane 79.0 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WS26 - 01 0-0.5' (H264226-23)

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	07/31/2026	ND	2.45	122	2.00	11.1		
Toluene*	<0.050	0.050	07/31/2026	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.32	116	2.00	14.6		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.80	113	6.00	14.8		
Total BTEx	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 86.1 % 48-117

Surrogate: 1-Chlorooctadecane 78.8 % 39-120

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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WS26 - 02 0-0.5' (H264226-24)

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	07/31/2026	ND	2.45	122	2.00	11.1		
Toluene*	<0.050	0.050	07/31/2026	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.32	116	2.00	14.6		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.80	113	6.00	14.8		
Total BTEx	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 76.2 % 48-117

Surrogate: 1-Chlorooctadecane 69.1 % 39-120

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 07/27/2026
 Reported: 08/03/2026
 Project Name: SEARS BSR #002H
 Project Number: 26A - 04150
 Project Location: RILEY EXPLORATION PERMIAN

Sampling Date: 07/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WS26 - 03 0-0.5' (H264226-25)

BTX 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	07/31/2026	ND	2.45	122	2.00	11.1		
Toluene*	<0.050	0.050	07/31/2026	ND	2.37	118	2.00	12.5		
Ethylbenzene*	<0.050	0.050	07/31/2026	ND	2.32	116	2.00	14.6		
Total Xylenes*	<0.150	0.150	07/31/2026	ND	6.80	113	6.00	14.8		
Total BTX	<0.300	0.300	07/31/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 70.7-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/31/2026	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2026	ND	194	96.8	200	3.78	
DRO >C10-C28*	<10.0	10.0	07/31/2026	ND	204	102	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	07/31/2026	ND					

Surrogate: 1-Chlorooctane 83.4 % 48-117

Surrogate: 1-Chlorooctadecane 73.0 % 39-120

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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 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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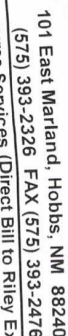
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476
Services (Direct Bill to Riley Ex

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

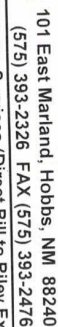
Add'l Phone #: 0402140114



BILL TO

ANALYSIS REQUEST

FORM-006 R 3.2 10/07/21



BILL TO

ANALYSIS REQUEST

[illegible]

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

August 13, 2026

FERNANDO RODRIGUEZ

RILEY PERMIAN

108 S. 4TH ST.

ARTESIA, NM 88210

RE: SEARS BSR # 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/07/26 9:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C26-00106. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKFILL 01 0FT	H264558-01	Soil	05-Aug-26 12:25	07-Aug-26 09:09
BACKFILL 02 0FT	H264558-02	Soil	05-Aug-26 12:30	07-Aug-26 09:09

CASE NARRATIVE:

No labels with lot numbers on sample containers for traceability.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

BACKFILL 01 0FT
H264558-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	6081042	KH	11-Aug-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6080802	JH	11-Aug-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.7-129 6080802 JH 11-Aug-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	

Surrogate: 1-Chlorooctane 76.6 % 48-117 6080726 JF 11-Aug-26 8015B

Surrogate: 1-Chlorooctadecane 71.8 % 39-120 6080726 JF 11-Aug-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

BACKFILL 02 0FT**H264558-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	6081042	KH	11-Aug-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6080802	JH	11-Aug-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6080802	JH	11-Aug-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	70.7-129		6080802	JH	11-Aug-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6080726	JF	11-Aug-26	8015B	

Surrogate: 1-Chlorooctane			74.9 %	48-117		6080726	JF	11-Aug-26	8015B	
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Surrogate: 1-Chlorooctadecane			70.5 %	39-120		6080726	JF	11-Aug-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 6081042 - 1:4 DI Water									
Blank (6081042-BLK1)									
					Prepared: 10-Aug-26 Analyzed: 11-Aug-26				
Chloride	ND	16.0	mg/kg						
LCS (6081042-BS1)									
					Prepared: 10-Aug-26 Analyzed: 11-Aug-26				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (6081042-BSD1)									
					Prepared: 10-Aug-26 Analyzed: 11-Aug-26				
Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	

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Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6080802 - Volatiles**Blank (6080802-BLK1)**

Prepared: 08-Aug-26 Analyzed: 11-Aug-26

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.117		mg/kg	0.100		117	70.7-129			

LCS (6080802-BS1)

Prepared: 08-Aug-26 Analyzed: 11-Aug-26

Benzene	2.13	0.050	mg/kg	2.00		106	93.2-121			
Toluene	2.21	0.050	mg/kg	2.00		111	88.7-117			
Ethylbenzene	2.24	0.050	mg/kg	2.00		112	81.4-123			
m,p-Xylene	4.67	0.100	mg/kg	4.00		117	76.3-126			
o-Xylene	2.30	0.050	mg/kg	2.00		115	76.2-125			
Total Xylenes	6.97	0.150	mg/kg	6.00		116	76.6-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	70.7-129			

LCS Dup (6080802-BSD1)

Prepared: 08-Aug-26 Analyzed: 11-Aug-26

Benzene	2.24	0.050	mg/kg	2.00		112	93.2-121	4.94	7.62	
Toluene	2.27	0.050	mg/kg	2.00		114	88.7-117	2.54	9.57	
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	81.4-123	1.10	11	
m,p-Xylene	4.66	0.100	mg/kg	4.00		116	76.3-126	0.269	11.2	
o-Xylene	2.30	0.050	mg/kg	2.00		115	76.2-125	0.0703	11	
Total Xylenes	6.96	0.150	mg/kg	6.00		116	76.6-125	0.157	11.1	
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	70.7-129			

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Analytical Results For:

RILEY PERMIAN
108 S. 4TH ST.
ARTESIA NM, 88210

Project: SEARS BSR # 2H
Project Number: NONE GIVEN
Project Manager: FERNANDO RODRIGUEZ
Fax To: NA

Reported:
13-Aug-26 11:32

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6080726 - General Prep - Organics**Blank (6080726-BLK1)**

Prepared: 07-Aug-26 Analyzed: 11-Aug-26

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.3		mg/kg	50.0		82.6	48-117			
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.2	39-120			

LCS (6080726-BS1)

Prepared: 07-Aug-26 Analyzed: 11-Aug-26

GRO C6-C10	194	10.0	mg/kg	200		96.8	80.3-117			
DRO >C10-C28	189	10.0	mg/kg	200		94.7	73.6-125			
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	78.1-120			
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.6	48-117			
Surrogate: 1-Chlorooctadecane	40.3		mg/kg	50.0		80.5	39-120			

LCS Dup (6080726-BS1)

Prepared: 07-Aug-26 Analyzed: 11-Aug-26

GRO C6-C10	195	10.0	mg/kg	200		97.5	80.3-117	0.712	7.91	
DRO >C10-C28	190	10.0	mg/kg	200		95.1	73.6-125	0.475	9.09	
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	78.1-120	0.595	8.12	
Surrogate: 1-Chlorooctane	43.7		mg/kg	50.0		87.3	48-117			
Surrogate: 1-Chlorooctadecane	42.2		mg/kg	50.0		84.4	39-120			

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Celey D. Keene, Lab Director/Quality Manager



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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

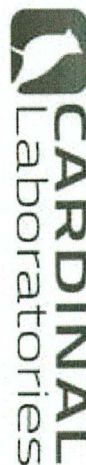
Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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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

Action 618815

QUESTIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2614652415
Incident Name	NAPP2614652415 SEARS BSR #002H @ 30-015-41583
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41583] SEARS BSR #002H

Location of Release Source

Please answer all the questions in this group.

Site Name	SEARS BSR #002H
Date Release Discovered	05/20/2026
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 2 BBL Recovered: 1 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 14 BBL Recovered: 9 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)	Stainless steel line off pressure transmitter and pressure swichgage snapped off and released fluids onto surrounding pad areas around the well. Vacuum truck was dispatched to pick up free fluids, and an excavation crew was brought to scrape recoverable/impacted materials and haul to disposal

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QUESTIONS, Page 2

Action 618815

QUESTIONS (continued)

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	Action Number: 618815
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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Fernando Rodriguez Title: SR EHS Specialist Email: fernandorodriguez@rileypermian.com Date: 08/28/2026
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QUESTIONS, Page 3

Action 618815

QUESTIONS (continued)

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
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 and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	16200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4274
GRO+DRO (EPA SW-846 Method 8015M)	3720
BTEX (EPA SW-846 Method 8021B or 8260B)	0.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/20/2026
On what date will (or did) the final sampling or liner inspection occur	07/23/2026
On what date will (or was) the remediation complete(d)	07/21/2026
What is the estimated surface area (in square feet) that will be reclaimed	9802
What is the estimated volume (in cubic yards) that will be reclaimed	218
What is the estimated surface area (in square feet) that will be remediated	9802
What is the estimated volume (in cubic yards) that will be remediated	218
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 618815

QUESTIONS (continued)

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Fernando Rodriguez Title: SR EHS Specialist Email: fernandorodriguez@rileypermian.com Date: 08/28/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 618815

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 618815

QUESTIONS (continued)

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	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	605560
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/23/2026
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	5000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9802
What was the total volume (cubic yards) remediated	218
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	9802
What was the total volume (in cubic yards) reclaimed	218
Summarize any additional remediation activities not included by answers (above)	All areas of the production pad have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.

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

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

I hereby agree and sign off to the above statement	Name: Fernando Rodriguez Title: SR EHS Specialist Email: fernandorodriguez@rileypermian.com Date: 08/28/2026
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QUESTIONS, Page 7

Action 618815

QUESTIONS (continued)

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	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 618815

CONDITIONS

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	Action Number: 618815
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2614652415 SEARS BSR #002H, thank you. This Remediation Closure Report is approved.	9/1/2026