

### nAPP2513446761

# **Release Assessment and Closure**

Dolores AIL Federal #3

Section 14, Township 22 South, Range 31 East

API: 30-015-26722

**County: Eddy** 

**Vertex File Number: 25A-00478** 

### **Prepared for:**

EOG Resources, Inc.

### Prepared by:

Vertex Resource Services Inc.

### Date:

August 2025

**EOG** Resources, Inc.

**Release Assessment and Closure** August 2025

Dolores AIL Federal #3

**Release Assessment and Closure Dolores AIL Federal #3** Section 14, Township 22 South, Range 31 East

API: 30-015-26722 **County: Eddy** 

Prepared for:

EOG Ressources, Inc. 5509 Champions Dr. Midland, Texas 79706

New Mexico Oil Conservation Division - District 2

811 S. 1st Street Artesia, New Mexico 88210

Prepared by:

**Vertex Resource Services Inc.** 

3101 Boyd Drive

Carlsbad, New Mexico 88220

ohn Rewis John Rewis, B.Sc.

8/26/2025

Date

ENVIRONMENTAL TECHINICIAN, REPORTING

Chance Dixon, B.Sc.

PROJECT MANAGER, REPORT REVIEW

8/26/2025

Date

### EOG Resources, Inc.

Dolores AIL Federal #3

### Release Assessment and Closure August 2025

Table	e of Contents	
1.0	Introduction	1
2.0	Incident Description	1
3.0	Site Characteristics	1
4.0	Closure Criteria Determination	2
5.0	Remedial Actions Taken	4
6.0	Closure Request	5
7.0	Land Reclamation	5
7.1	End Land Use and Capability	5
7.2	Soil Replacement	5
7.3	Restoration of Drainage	E
7.4	Erosion Control	5
7.5	Re-vegetation	5
7.	.5.1 Seeding	5
7.	.5.2 Reclamation Standards	6
7.6	Weed Management	6
8.0	Monitoring Program	6
9.0	Final Summary	6
7.0	References	7
8.0	Limitations	8

**EOG** Resources, Inc.

**Release Assessment and Closure** Dolores AIL Federal #3 August 2025

### **In-text Tables**

Table 1. Closure Criteria Determination

Table 2. Closure Criteria for Soils Impacted by a Release

### **List of Figures**

Figure 1. Confirmatory Sampling Site Schematic

### **List of Tables**

Table 3. Confirmatory Sample Field Screen and Laboratory Results

### **List of Appendices**

Appendix A. Closure Criteria Research Documentation Appendix B. Daily Field Reports with Photographs

Appendix C. Laboratory Data Reports and Chain of Custody Forms

Release Assessment and Closure August 2025

### 1.0 Introduction

EOG Resources, Inc (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water and crude release that occurred on January 23, 2025, at Dolores AIL Federal #3 API 30-015-26722 (hereafter referred to as the "site"). Notification of release was reported to the New Mexico Oil Conservation Division (NMOCD) on May 14, 2025. A C-141 application for a remediation plan was submitted to NMOCD on May 20, 2025, and was granted approval on June 2, 2025. Incident ID number nAPP2513446761 assigned to this incident.

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

### 2.0 Incident Description

The release occurred on January 23, 2025, due to internal corrosion of a poly flow line. The incident involved the release of approximately 20 barrels (bbl.) of produced water and 5 bbl. of produced oil into the pasture. Approximately 1 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFRs) and site photographs are included in Appendix B.

#### 3.0 Site Characteristics

The site is located approximately 45 miles east of Carlsbad, New Mexico. The legal location for the site is Section 14, Township 22 South and Range 31 East in Eddy County, New Mexico. The release area is located on Federal property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area in the pasture on or in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qep – eolian and piedmont deposits (Holocene to middle Pleistocene), and the soil at the site is characterized as fine sands (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of excessively drained with a runoff class of negligible. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with plains and alluvial fans with elevations ranging between 3,100 and 4,200 feet. The climate is semiarid with average annual precipitation ranging between 10 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to dropseeds, threeawns,

Release Assessment and Closure August 2025

and bluestems. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

### 4.0 Closure Criteria Determination

The nearest active DTGW reference is an exploratory borehole that was established by Carmona Resources, LLC. (Carmona). The borehole was placed approximately 0.74 miles away from the site. It was recorded as a dry hole at 105 feet bgs in 2022. The borehole was included as reference in the remediation plan for the site that was referenced in Section 1.0.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 1.57 miles southeast of the site (United States Fish and Wildlife Service, 2025).

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

Release Assessment and Closure August 2025

pill Coo	rdinates: 32.393339, -103.741514	X: UTM 618364.55	Y: UTM 3584732.1		
ite Spec	ific Conditions	Value	Unit		
	Depth to Groundwater (nearest reference)	>105	feet		
1	Distance between release and nearest DTGW reference	3,907	feet		
		0.74	miles		
	Date of nearest DTGW reference measurement	March	2, 2022		
2	Within 300 feet of any continuously flowing	8,314	feet		
	watercourse or any other significant watercourse	-,-			
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	35,559	feet		
4	Within 300 feet from an occupied residence, school, hospital, institution or church	32,165	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, <b>or</b>	8,208	feet		
	ii) Within 1000 feet of any fresh water well or spring		feet		
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)		
7	Within 300 feet of a wetland	19,149	feet		
	Within the area overlying a subsurface mine	No	(Y/N)		
8	Distance between release and nearest registered mine	41,866	feet		
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low		
	Distance between release and nearest unstable area	20,480	feet		
	Within a 100-year Floodplain	>500	year		
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	53,744	feet		
11	Soil Type	k	KM		
12	Ecological Classification	Deep Sand			
13	Geology	Qep			
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'		

Release Assessment and Closure August 2025

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

Table 2. Closure Criteria for Soils to Remediation & Reclamation Standards							
	Constituent	Limit					
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg					
0-4 feet bgs (19.15.29.15)	TPH (GRO+DRO+MRO)	100 mg/kg					
	Chloride	20,000 mg/kg					
	TPH (GRO+DRO+MRO)	2,500 mg/kg					
DTGW > 100 feet (19.15.29.12)	GRO+DRO	1,000 mg/kg					
	ВТЕХ	50 mg/kg					
	Benzene	10 mg/kg					

DTGW - Depth to groundwater

bgs - Below ground surface

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

BTEX – benzene, toluene, ethylbenzene and xylenes

#### 5.0 Remedial Actions Taken

Delineation of the release area was completed on February 5, 2025, which identified the area of the release specified in the initial C-141 Report and estimated the approximate volume of the release. The impacted area was determined to be approximately 3,025 square feet. Documentation of all delineation activities is included in the approved remediation plan.

Remediation efforts began on June 26, 2025, and were finalized on July 7, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening was completed with a total of 26 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and silver nitrate titration (chlorides). Soils were first removed to a depth of 4 feet bgs to determine if any exceedances remained via composite sampling. Further excavation at sample point BS25-14 was completed to 5 feet bgs after lab results determined that the 4-foot sample exceeded closure criteria. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. A DFR documenting final remediation before backfill is presented in Appendix B.

Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 27 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories (Cardinal) 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 Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

Samples collected on June 26, 2025, were collected, stored on ice and transported straight to Cardinal by Vertex the same day as collected. The samples did not have enough time to reach the state-required temperature of 6 degrees Celsius. By rule, the state of New Mexico allows 24 hours for the samples to reach the desired temperature. Cardinal

Release Assessment and Closure August 2025

confirmed with Vertex that the samples fell within state requirements as they arrived at the lab on ice. A Case Narrative confirming this is included in Laboratory Report H253889 in Appendix C.

### **6.0 Closure Request**

The release area was fully delineated, remediated, and backfilled with clean local soils. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "greater than 100 feet to groundwater". Based on these findings EOG Resources, Inc. requests that this release be closed.

### 7.0 Land Reclamation

The Land Reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that were used during the surface reclamation phase for the site. The outline of the reclamation area did not veer from the remediation area depicted in Figure 1. The Daily Site Visit Report detailing seeding is provided in Appendix B.

### 7.1 End Land Use and Capability

The land use surrounding the site is defined as natural; therefore, the end land use would be natural land. A natural area is described as: away from human habitation and activities, where the primary concern is the protection of ecological receptors. The site was reclaimed so that the capability of the land matches that of the areas immediately surrounding the site, which consists of rangeland.

### 7.2 Soil Replacement

Surface reclamation included determination of background topsoil depth as site conditions are required to meet pre-existing conditions. Reclamation of the location and of the was completed after backfilling operations. Clean, locally sourced topsoil and caliche were imported to the site to backfill the excavation (Table 4). The entire reclamation area was fenced with a 4-strand barbed wire fence.

### 7.3 Restoration of Drainage

Currently, the site consists of a mostly-level pasture area. The site was contoured to match surrounding topography as near as practicable to restore natural drainage. Any compaction on-site was addressed by decompaction to an approximate depth of 12 inches. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

#### 7.4 Erosion Control

There are currently no erosion concerns on-site, and the use of erosion control devices at this location is not anticipated; however, erosion control devices will be installed at the discretion of the on-site environmental inspector.

### 7.5 Re-vegetation

#### 7.5.1 Seeding

A seed mix suitable for the site and surrounding area was used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. An NMSLO loamy seed mix consisting of

Release Assessment and Closure August 2025

Sideoats grama -4.0 lb/acre, Blue grama -1 lb/acre, Black grama -1 lb/acre, Sand dropseed -2 lb/acre, Alkali sacaton -1 lb/acre, Little bluestem 1.5 lb/acre was obtained for the site and administered by Vertex personnel. Seeding was completed using a tractor with rotating discs and broadcasted on all areas under reclamation. Photo documentation of the excavation area after backfilling and seeding is located in Appendix B.

#### 7.5.2 Reclamation Standards

Reclamation success will meet requirements outlined in Chapter 6 of The Gold Book (United States Department of the Interior and U.S. Department of Agriculture, 2007) which states that "a self-sustaining, vigorous, diverse, native (or otherwise approved) plant community is established on site, with a density sufficient to control erosion and non-native plant invasion and to re-establish wildlife habitat or forage production".

### 7.6 Weed Management

The site will be monitored for vegetative growth throughout the year. Should noxious vegetation be identified on-site, a control program will be implemented and managed as required.

Weed management programs will identify weed species of concern and utilize effective control methods. These methods include but are not limited to chemical (herbicide) control, mechanical (mowing) control or biological control as approved by governing regulatory agencies.

### 8.0 Monitoring Program

Tri-annual inspections will be conducted during the growing season, to monitor site progression and assess the need for additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented.

### 9.0 Final Summary

Reclamation of the release has been completed. Vertex will monitor the site for vegetative growth with the specifications listed in Section 8. During the tri-annual inspections, if site conditions are at or nearing background conditions with 70% coverage, the final reclamation/re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

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

Release Assessment and Closure August 2025

#### 10.0 References

- Google Inc. (2025). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2025). Assessed and Impaired Waters of New Mexico.

  Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2025). *OCD Permitting Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2025). *Coal Mine Resources in New Mexico*. Retrieved from https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93
- New Mexico Office of the State Engineer. (2025a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2025b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2025c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2025). Web Soil Survey. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2025). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad\_spatial\_data.html
- United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

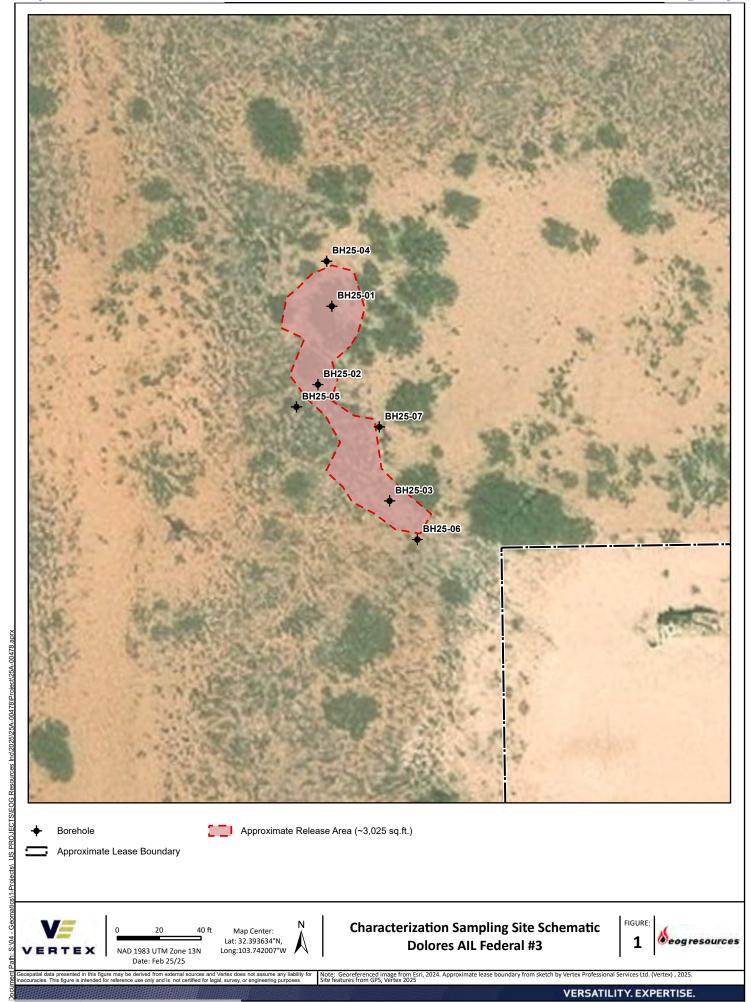
Release Assessment and Closure August 2025

### 11.0 Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, 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: EOG Resources Inc. Site Name: Dolores AIL Federal #3 NMOCD Tracking #: nAPP2513446761

Project #: 25A-00478

Lab Reports: H253889, H253928, H254030

Table 4. Confirmatory Sample and Laboratory Results										
9	Sample Descrip		Petroleum Hydrocarbons							
	l		Volatile Extractable							Inorganic
Sample ID	Depth (ft)	Depth (ft) Sample Date		BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) epth to Gro	(mg/kg)	(mg/kg) >100	(mg/kg)	(mg/kg)
BS25-01	4	June 26, 2025	ND	ND	ND	ND ND	ND	ND ND	ND	224
BS25-01 BS25-02	4	,	ND	ND	ND	ND	ND	ND	ND	32
BS25-02 BS25-03	4	June 26, 2025 June 26, 2025	ND	ND	ND	ND	ND	ND	ND ND	32
BS25-03 BS25-04	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-04 BS25-05	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-05 BS25-06	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-00	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	160
BS25-07 BS25-08	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-09	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-10	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-11	4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	48
BS25-12	4	June 26, 2025	ND	ND	ND	19.6	ND	19.6	19.6	160
BS25-13	4	June 26, 2025	ND	ND	ND	145	35.2	145	180.2	256
	4	June 30, 2025	ND	ND	ND	1500	1380	1500	2880	544
BS25-14	5	July 7, 2025	ND	0.272	36.1	491	77.2	527.1	604.3	32
BS25-15	4	June 30, 2025	ND	ND	25.2	705	125	730.2	855.2	304
BS25-16	4	June 30, 2025	ND	ND	ND	260	53.4	260	313.4	80
WS25-01	0-4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-02	0-4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-03	0-4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-04	0-4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	16
WS25-05	0-4	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-06	0-4	June 30, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-07	0-4	June 30, 2025	ND	ND	ND	ND	ND	ND	ND	32
WS25-08	4-5	July 7, 2025	ND	ND	ND	12.7	ND	ND	ND	144
Backfill-01	0	June 30, 2025	ND	ND	ND	ND	ND	ND	ND	256
Backfill-02	0	June 30, 2025	ND	ND	ND	ND	ND	ND	ND	64

<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



<sup>&</sup>quot;-" indicates not analyzed/assessed

# **APPENDIX A – Closure Criteria Research Documentation**



Project Name : Martha AIK Federal No. 13

Project No.: 1016

Location : Eddy Co, New Mexico

Coordinates : 32.4038688, -103.7457492

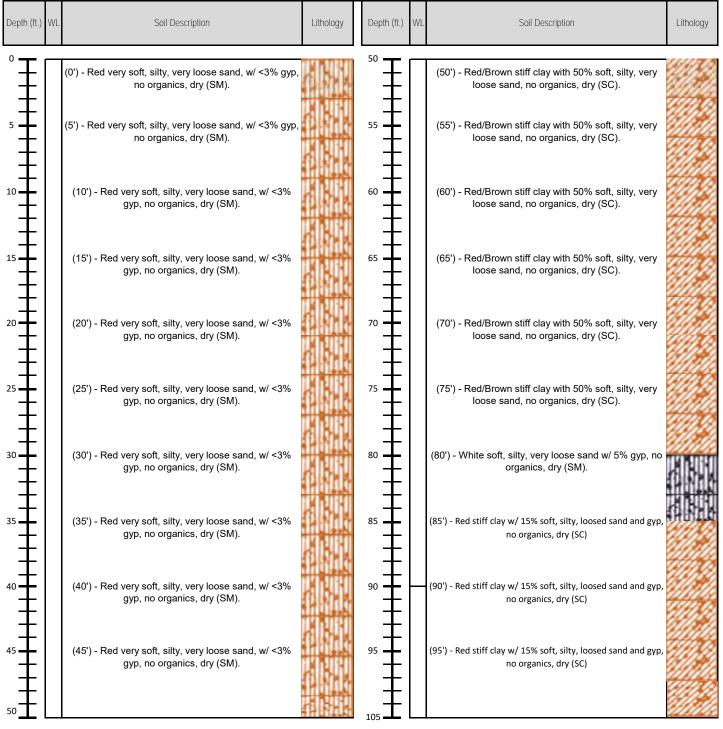
Elevation : 3,583

Date: Wednesday, March 2, 2022

Sampler : Clinton Merritt

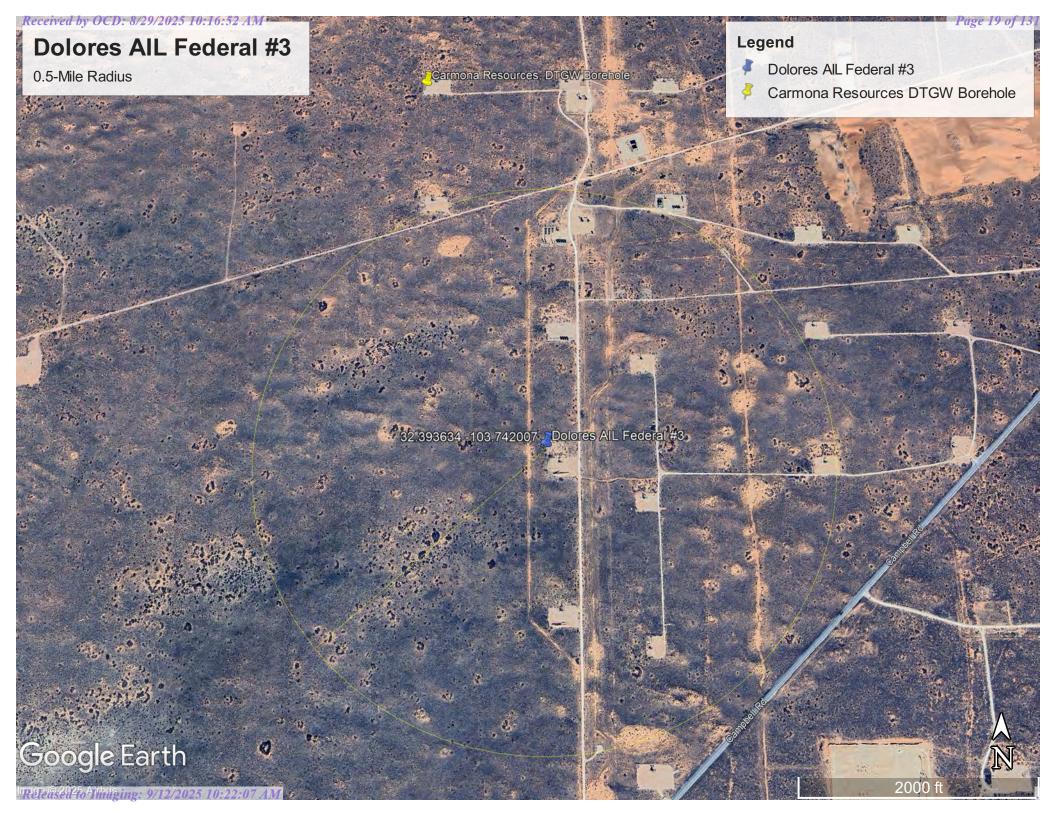
Driller: Scarborough Drilling

Method : Air Rotary



Comments: 12:30 (CT) Boring terminated at 105' with no presence of groundwater or moisture.

9:13 (CT) 03/07/2022 no presence of groundwater was detected





# Dolores AIL Federal #3 Watercourse 8,314ft



February 23, 2025

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

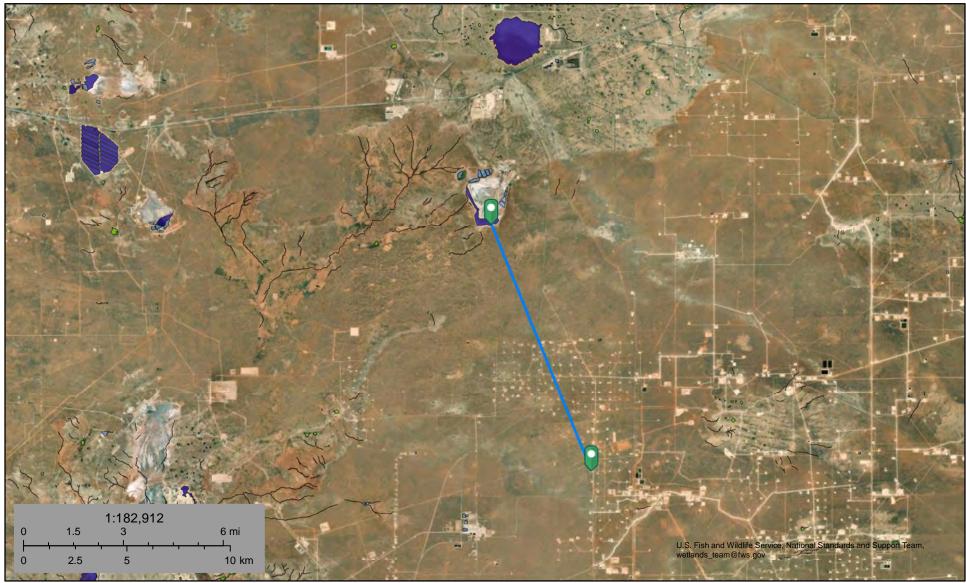
Riverine

Other

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.



# Dolores AIL Federal #3 Lake 3,5591ft



February 23, 2025

### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

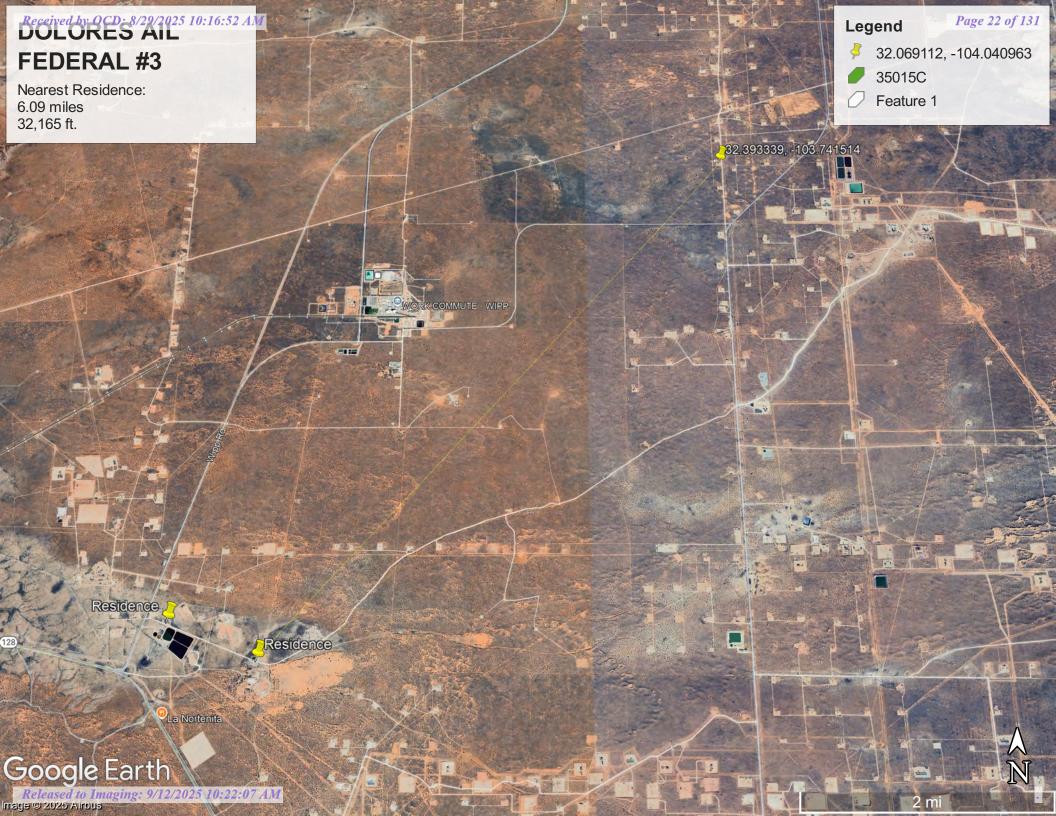
Freshwater Pond

Lake

Riverine

Other

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.

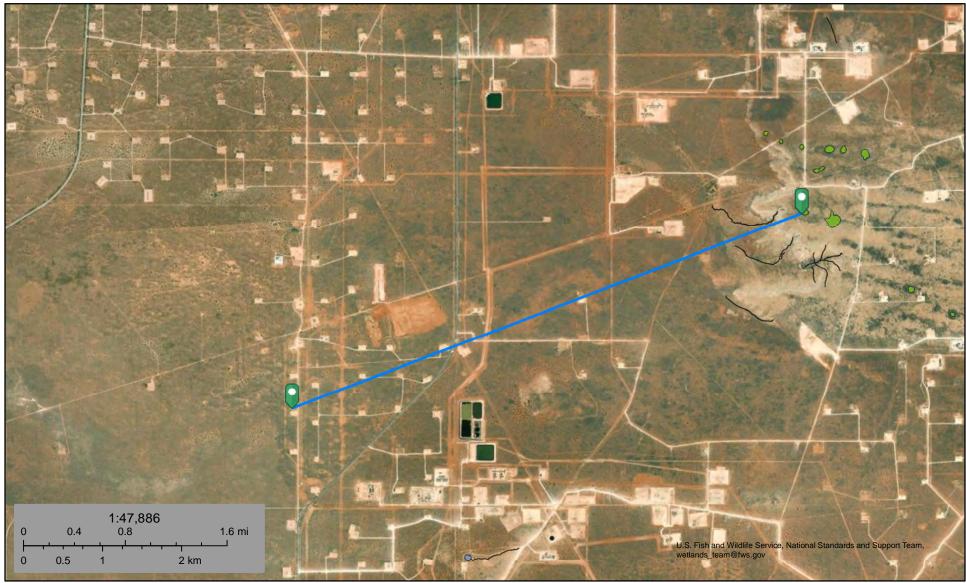


(acre ft per annum) (R=POD has been replaced and no longer serves this file, C=the file is closed)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source
					LE	<u>C 04144 POD7</u>	NA			
					LE	<u>C 04144 POD33</u>	NA			
					LE	C 04144 POD34	NA			
					LE	<u>C 04144 POD6</u>	NA			
					LE	C 04144 POD12	NA			
<u>C 04740</u>	CUB	MON	0.000	OXY USA INC.	ED	C 04740 POD1	NA			
<u>C 02739</u>	С	STK	0.000	MILLS FAMILY PARTNERSHIP FLP	ED	<u>C 02739</u>				
<u>C 02939</u>	С	STK	0.000	J C AND FRANCES MILLS FAMILY PARTNERSHIP LTD	LE	<u>C 02939</u>				
<u>C 04837</u>	CUB	MON	0.000	BLAKE GROOMS	LE	<u>C 04837 POD1</u>	NA			
<u>C 02415</u>	CUB	MON	0.000	U.S. DEPT OF ENERGY	ED	<u>C 02415</u>				Artesia
<u>C 02756</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	<u>C 02756</u>				
<u>C 03152</u>	CUB	MON	0.000	U.S. DEPT OF ENERGY	ED	<u>C 03152</u>				Shallov
<u>C 04695</u>	CUB	MON	0.000	OXY USA INC.	LE	C 04695 POD1	NA			
<u>C 04691</u>	CUB	MON	0.000	OXY USA INC	ED	<u>C 04691 POD1</u>	NA			
<u>C 04907</u>	CUB	MON	0.000	SELECT WATER SOLUTIONS, LLC	LA	<u>C 04907 POD1</u>	NA			
<u>C 02685</u>	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	<u>C 02685</u>				
<u>C 03138</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	<u>C 03138</u>				
<u>C 02414</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	<u>C 02414</u>				Artesia
<u>C 04686</u>	CUB	MON	0.000	OXY USA INC	ED	<u>C 04686 POD1</u>	NA			
<u>C 02682</u>	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	<u>C 02682</u>				
<u>C 04598</u>	CUB	EXP	0.000	LUCID ENERGY GROUP	LE	C 04598 POD1	NA			
			0.000	U.S. DEPARTMENT OF	ED	<u>C 02639</u>				



# Dolores AIL Federal Wetland 19,149ft



February 23, 2025

### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

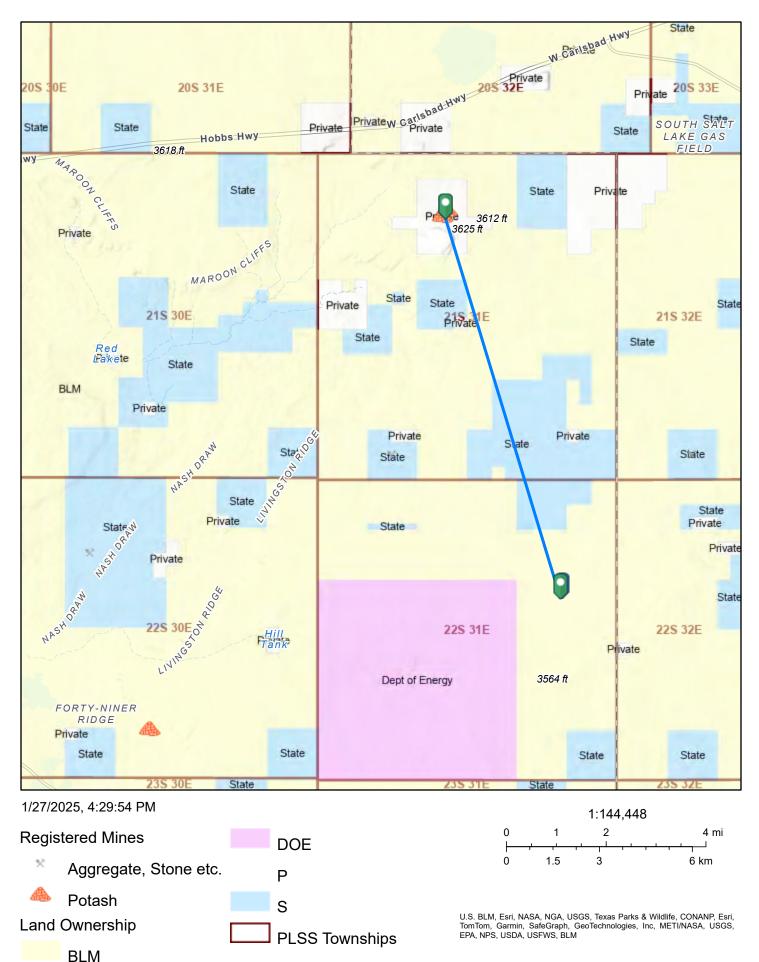
Freshwater Pond

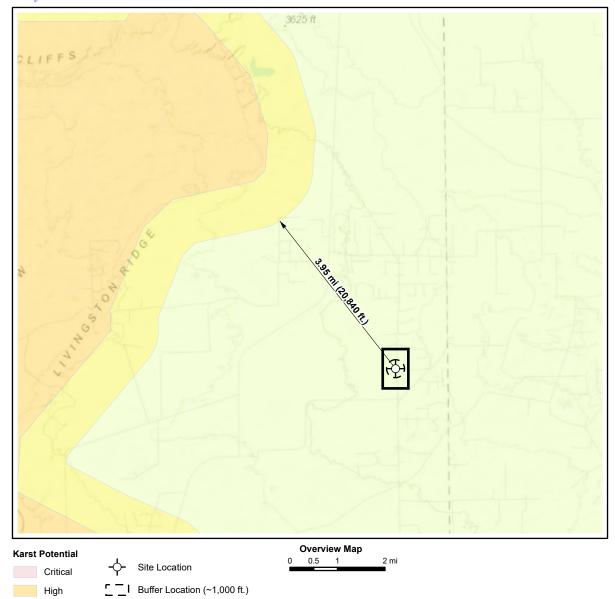


Riverine

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.

# Dolores AIL Federal #3 Mine 41,886ft







**Detail Map** 0 145 290

Medium Low



Map Center: Lat/Long 32.393339°,-103.741514°

NAD 1983 UTM Zone 13N Date: Feb 03/25



**Karst Potential Map** Dolores AIL Federal #3 Figure: X



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

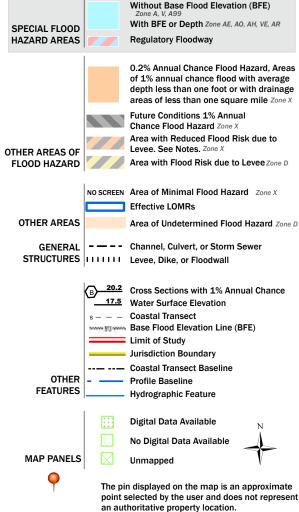
Note: Inset Map, Esri 2022; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

# National Flood Hazard Layer FIRMette





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

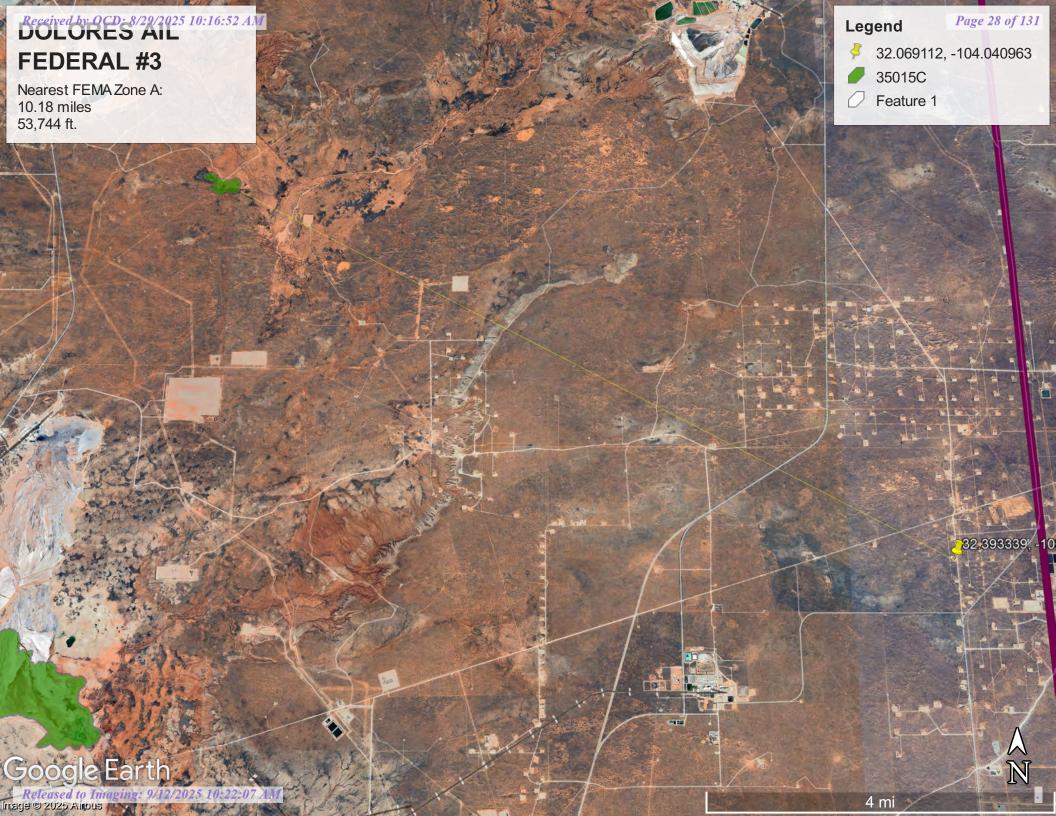


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/27/2025 at 11:23 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.





### Custom Soil Resource Report

### **Eddy Area, New Mexico**

### KM—Kermit-Berino fine sands, 0 to 3 percent slopes

### **Map Unit Setting**

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

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

### **Description of Kermit**

### Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

### Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

### **Description of Berino**

### Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

### Custom Soil Resource Report

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

Parent material: Mixed alluvium and/or eolian sands

### **Typical profile**

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

### **Minor Components**

#### **Active dune land**

Percent of map unit: 15 percent

Hydric soil rating: No

# **APPENDIX B – Daily Field Reports with Photographs**



### **Site Photos**



BH25-01 @ 0 BH25-01 @ 2 BH25-01 @ 4



BH25-02 @ 0 BH25-02 @ 2 BH25-02 @ 4





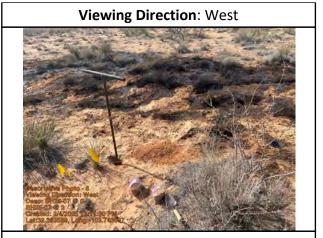
BH25-03 @ 0 BH25-03 @ 2 BH25-03 @ 4



BH25-05 @ 0 BH25-05 @ 2



BH25-04 @ 0 BH25-04 @ 2



BH25-07 @ 0 BH25-07 @ 2





BH25-06 @ 0 BH25-06 @ 2



### **Site Photos**





Placard

Viewing Direction: Northeast



Current state of excavation: south half of excavation.

Viewing Direction: East



Current state of excavation: southeast end incomplete.

### Viewing Direction: North



Current state of excavation: south half of excavation.





Current state of excavation: north half of excavation



Current state of excavation: view from north end of excavation facing south.



Area where WS25-01 was collected.



Area where WS25-02 was collected.





Area where WS25-03 was collected.



Area where WS25-04 was collected.



Area where WS25-05 was collected.



Area where BS25-01 to -05 were collected.







Area where BS25-03 and BS25-06 were collected.



Area where BS25-07 and BS25-08 were collected.



Area where BS25-09 and BS25-10 were collected.

Viewing Direction: Southeast



Area where BS25-11, BS25-12, and BS25-13 were collected.





Area where BS25-11, BS25-12, and BS25-13 were collected.



Remaining excavation area.



Run on 6/27/2025 12:11 AM UTC Powered by www.krinkleldar.com



#### **Site Photos**

## Viewing Direction: Southeast



BS25-14 at 4ft bgs. Sample was collected as a 5 -point composite samples in a 200 sq ft area.

## Viewing Direction: East



BS25-16 at 4ft bgs. Sample was collected as a 5 -point composite samples in a 200 sq ft area.

## Viewing Direction: Southeast



BS25-15 at 4ft bgs. Sample was collected as a 5 -point composite samples in a 200 sq ft area.

## Viewing Direction: East



WS25-06 at 0-4ft bgs. Sample was collected within a 200 sq ft area (50ft increments).





WS25-07 at 0-4ft bgs. Sample was collected within a 200 sq ft area (50ft increments).



Overview of the 4ft bgs excavation from the south wall.



Overview of the central portion of the 4ft excavation.



Overview of the northern portion of the 4ft bgs excavation.







Overview of the 4ft bgs excavation from the north wall.



Northern portion of the excavation from the north wall.



Central portion of the excavation.



Buried pipelines located in the southern portion of the excavation are being held up by skids to maintain structural integrity of the pipelines.





Location of Backfill-01. A 5-point composite sample.



## **Site Photos**



BS25-14 at 5ft bgs. 5-point composite sample was collected.

# Viewing Direction: Northwest Onderforms Prints Print

WS25-08 at 4-5ft bgs. 5-point composite sample was collected.



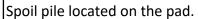
Central portion of the excavation.



Southeast portion of the excavation where buried pipelines were exposed and put on skids for stability.









North extent of the 4ft bgs excavation.



## **Site Photos**





Placard

Viewing Direction: Northwest



Area southeast of backfilled excavation.

## **Viewing Direction**: Northwest



Area northwest corner of pad, southeast of backfilled excavation.

# Viewing Direction: Northwest



Area southeast of backfilled excavation.





Area south of backfilled excavation.



Area south of backfilled excavation.



Area south of backfilled excavation.

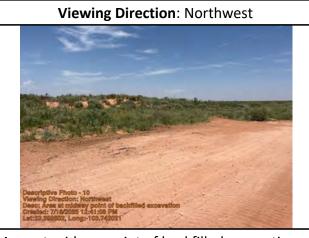


Run on 7/17/2025 12:10 AM UTC Powered by www.krinkleldar.com Page 3 of 6





Area at midway point of backfilled excavation



Area at midway point of backfilled excavation



North end of backfilled excavation



North end of backfilled excavation





North end of backfilled excavation facing south



Northwest corner of backfilled excavation facing southeast



Southwest side of backfilled excavation facing southeast



West pad

# **APPENDIX C – Laboratory Data Reports and Chain of Custody Forms**



July 01, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 06/26/25 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WS25 - 01 0-4'	H253889-01	Soil	26-Jun-25 10:00	26-Jun-25 16:30
WS25 - 02 0-4'	H253889-02	Soil	26-Jun-25 10:05	26-Jun-25 16:30
WS25 - 03 0-4'	H253889-03	Soil	26-Jun-25 10:10	26-Jun-25 16:30
WS25 - 04 0-4'	H253889-04	Soil	26-Jun-25 10:15	26-Jun-25 16:30
WS25 - 05 0-4'	H253889-05	Soil	26-Jun-25 10:20	26-Jun-25 16:30
BS25 - 01 4.0'	H253889-06	Soil	26-Jun-25 10:25	26-Jun-25 16:30
BS25 - 02 4.0'	H253889-07	Soil	26-Jun-25 10:30	26-Jun-25 16:30
BS25 - 03 4.0'	H253889-08	Soil	26-Jun-25 10:35	26-Jun-25 16:30
BS25 - 04 4.0'	H253889-09	Soil	26-Jun-25 10:40	26-Jun-25 16:30
BS25 - 05 4.0'	H253889-10	Soil	26-Jun-25 10:45	26-Jun-25 16:30
BS25 - 06 4.0'	H253889-11	Soil	26-Jun-25 10:50	26-Jun-25 16:30
BS25 - 07 4.0'	H253889-12	Soil	26-Jun-25 10:55	26-Jun-25 16:30
BS25 - 08 4.0'	H253889-13	Soil	26-Jun-25 11:00	26-Jun-25 16:30
BS25 - 09 4.0'	H253889-14	Soil	26-Jun-25 11:05	26-Jun-25 16:30
BS25 - 10 4.0'	H253889-15	Soil	26-Jun-25 11:10	26-Jun-25 16:30
BS25 - 11 4.0'	H253889-16	Soil	26-Jun-25 11:15	26-Jun-25 16:30
BS25 - 12 4.0'	H253889-17	Soil	26-Jun-25 11:20	26-Jun-25 16:30
BS25 - 13 4.0'	H253889-18	Soil	26-Jun-25 11:25	26-Jun-25 16:30

#### Case Narrative:

Samples were received same day as sampling on ice at 8.5C. Samples did not have enough time to reach temperature of 6C and below.

07/01/25 - Client requested case narrative about receipt temperature be added to the report. This is the revised report and will replace the one sent on 06/27/25.

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Reported:

01-Jul-25 18:30



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

## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

WS25 - 01 0-4'

H253889-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062717	НМ	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062623	ЈН	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062623	ЈН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062623	ЈН	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		110 %	71.5	-134	5062623	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			74.9 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			70.4 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

WS25 - 02 0-4' H253889-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062717	HM	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062623	ЈН	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062623	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		109 %	71.5	-134	5062623	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			73.2 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			68.6 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

WS25 - 03 0-4' H253889-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062717	HM	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		108 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			72.7 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			68.1 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

WS25 - 04 0-4' H253889-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5062717	НМ	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		111 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			73.9 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			69.2 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

WS25 - 05 0-4' H253889-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		115 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			74.2 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			69.8 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 01 4.0' H253889-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		116 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			71.3 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			67.1 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 02 4.0' H253889-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		109 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			71.1 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			67.6 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 03 4.0' H253889-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		111 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			71.1 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			67.2 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 04 4.0' H253889-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			74.3 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			69.6 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 05 4.0' H253889-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	ЈН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		109 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			71.9 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			67.7 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 06 4.0' H253889-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			71.5 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			66.3 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 07 4.0' H253889-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		111 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			72.4 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			68.1 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 08 4.0' H253889-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		109 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			76.0 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			71.6 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 09 4.0' H253889-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		114 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctane			70.5 %	44.4	-145	5062641	MS	26-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			65.9 %	40.6	-153	5062641	MS	26-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 10 4.0' H253889-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		117 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062641	MS	27-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062641	MS	27-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062641	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctane			72.6 %	44.4	-145	5062641	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			68.5 %	40.6	-153	5062641	MS	27-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 11 4.0' H253889-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	TD)		112 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctane			85.1 %	44.4	-145	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			81.6 %	40.6	-153	5062629	MS	27-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 12 4.0' H253889-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		113 %	71.5	-134	5062642	JH	26-Jun-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
DRO >C10-C28*	19.6		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctane			93.3 %	44.4	-145	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	40.6	-153	5062629	MS	27-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

BS25 - 13 4.0' H253889-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	5062712	AC	27-Jun-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5062642	ЈН	26-Jun-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5062642	JH	26-Jun-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		114 %	71.5	-134	5062642	ЈН	26-Jun-25	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
DRO >C10-C28*	145		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
EXT DRO >C28-C36	35.2		10.0	mg/kg	1	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctane			90.6 %	44.4	-145	5062629	MS	27-Jun-25	8015B	
Surrogate: 1-Chlorooctadecane			91.9 %	40.6	-153	5062629	MS	27-Jun-25	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## **Analytical Results For:**

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

## **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5062712 - 1:4 DI Water										
Blank (5062712-BLK1)				Prepared &	Analyzed:	27-Jun-25				
Chloride	ND	16.0	mg/kg							
LCS (5062712-BS1)				Prepared &	: Analyzed:	27-Jun-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5062712-BSD1)				Prepared & Analyzed: 27-Jun-25						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 5062717 - 1:4 DI Water										
Blank (5062717-BLK1)				Prepared &	Analyzed:	27-Jun-25				
Chloride	ND	16.0	mg/kg							
LCS (5062717-BS1)				Prepared &	Analyzed:	27-Jun-25				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5062717-BSD1)				Prepared &	Analyzed:	27-Jun-25				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5062623 - Volatiles										

Batch 5062623 - Volatiles									
Blank (5062623-BLK1)				Prepared & Anal	yzed: 26-Jun-25				
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)	0.0548		mg/kg	0.0500	110	71.5-134			
LCS (5062623-BS1)				Prepared & Anal	yzed: 26-Jun-25				
Benzene	2.17	0.050	mg/kg	2.00	108	76.3-129			
Toluene	2.12	0.050	mg/kg	2.00	106	84.1-129			
Ethylbenzene	2.11	0.050	mg/kg	2.00	105	80.1-133			
m,p-Xylene	4.12	0.100	mg/kg	4.00	103	81.4-134			
o-Xylene	2.05	0.050	mg/kg	2.00	103	81.4-133			
Total Xylenes	6.17	0.150	mg/kg	6.00	103	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0479		mg/kg	0.0500	95.8	71.5-134			
LCS Dup (5062623-BSD1)				Prepared & Anal	yzed: 26-Jun-25				
Benzene	2.17	0.050	mg/kg	2.00	108	76.3-129	0.203	15.8	
Toluene	2.14	0.050	mg/kg	2.00	107	84.1-129	0.874	15.9	
Ethylbenzene	2.11	0.050	mg/kg	2.00	106	80.1-133	0.293	16	
m,p-Xylene	4.09	0.100	mg/kg	4.00	102	81.4-134	0.652	16.2	
o-Xylene	2.06	0.050	mg/kg	2.00	103	81.4-133	0.416	16.7	
Total Xylenes	6.15	0.150	mg/kg	6.00	103	81.5-134	0.296	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500	99.0	71.5-134			

#### Batch 5062642 - Volatiles

Blank (5062642-BLK1)			Prepared & Analyzed: 26-Jun-25
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

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



%REC

### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220 Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Spike

0.0500

Source

102

71.5-134

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

RPD

### **Volatile Organic Compounds by EPA Method 8021 - Quality Control**

### **Cardinal Laboratories**

Reporting

0.0511

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5062642 - Volatiles										
Blank (5062642-BLK1)				Prepared &	Analyzed:	26-Jun-25				
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500		108	71.5-134			
LCS (5062642-BS1)				Prepared &	Analyzed:	26-Jun-25				
Benzene	2.11	0.050	mg/kg	2.00		106	76.3-129			
Toluene	2.13	0.050	mg/kg	2.00		107	84.1-129			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	80.1-133			
m,p-Xylene	4.30	0.100	mg/kg	4.00		107	81.4-134			
o-Xylene	2.09	0.050	mg/kg	2.00		104	81.4-133			
Total Xylenes	6.38	0.150	mg/kg	6.00		106	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			
LCS Dup (5062642-BSD1)				Prepared &	: Analyzed:	26-Jun-25				
Benzene	2.01	0.050	mg/kg	2.00		100	76.3-129	5.07	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	84.1-129	4.03	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	80.1-133	3.99	16	
n,p-Xylene	4.11	0.100	mg/kg	4.00		103	81.4-134	4.40	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	81.4-133	3.47	16.7	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	81.5-134	4.10	16.3	

mg/kg

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

Surrogate: 4-Bromofluorobenzene (PID)

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220

Analyte

Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Spike

Level

Source

Result

%REC

93.3

92.5

44.4-145

40.6-153

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

ND

ND

46.7

46.3

10.0

mg/kg

mg/kg

mg/kg

mg/kg

50.0

50.0

Blank (5062629-BLK1)				Prepared: 26-Jur	n-25 Analyzed: 2	27-Jun-25			
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	56.7		mg/kg	50.0	113	44.4-145			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0	110	40.6-153			
LCS (5062629-BS1)				Prepared: 26-Jur	n-25 Analyzed: 2	27-Jun-25			
GRO C6-C10	215	10.0	mg/kg	200	107	81.5-123			
DRO >C10-C28	196	10.0	mg/kg	200	98.2	77.7-122			
Total TPH C6-C28	411	10.0	mg/kg	400	103	80.9-121			
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0	119	44.4-145			
Surrogate: 1-Chlorooctadecane	59.0		mg/kg	50.0	118	40.6-153			
LCS Dup (5062629-BSD1)				Prepared: 26-Jur	n-25 Analyzed: 2	27-Jun-25			
GRO C6-C10	208	10.0	mg/kg	200	104	81.5-123	3.29	13	
DRO >C10-C28	191	10.0	mg/kg	200	95.3	77.7-122	3.07	15.6	
Total TPH C6-C28	398	10.0	mg/kg	400	99.6	80.9-121	3.18	18.5	
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0	111	44.4-145			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0	112	40.6-153			
Batch 5062641 - General Prep - Organics									
Blank (5062641-BLK1)				Prepared & Anal	lyzed: 26-Jun-25				
GRO C6-C10	ND	10.0	mg/kg	-					

### Cardinal Laboratories

DRO >C10-C28

EXT DRO >C28-C36

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

### Analytical Results For:

VERTEX RESOURCE 3101 BOYD DRIVE CARLSBAD NM, 88220

Analyte

Project: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Spike

Level

Source

Result

%REC

Project Manager: CHANCE DIXON

Fax To: NA

Reported: 01-Jul-25 18:30

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

Batch 5062641 - General Prep - Organics           LCS (5062641-BS1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         186         10.0         mg/kg         200         93.0           DRO >C10-C28         175         10.0         mg/kg         200         87.5           Total TPH C6-C28         361         10.0         mg/kg         400         90.2           Surrogate: 1-Chlorooctane         47.1         mg/kg         50.0         94.3           Surrogate: 1-Chlorooctadecane         47.1         mg/kg         50.0         94.2           LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	, orthe	zever resum	Limito	Tu D	Ziiiiiv	110100
GRO C6-C10						
DRO >C10-C28         175         10.0         mg/kg         200         87.5           Total TPH C6-C28         361         10.0         mg/kg         400         90.2           Surrogate: I-Chlorooctane         47.1         mg/kg         50.0         94.3           Surrogate: I-Chlorooctadecane         47.1         mg/kg         50.0         94.2           LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: I-Chlorooctane         45.8         mg/kg         50.0         91.7	26-Jun-25	Prepared & Analyzed: 26	5			
Total TPH C6-C28         361         10.0 mg/kg         400         90.2           Surrogate: 1-Chlorooctane         47.1 mg/kg         50.0 94.3           Surrogate: 1-Chlorooctadecane         47.1 mg/kg         50.0 94.2           LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191 10.0 mg/kg         200 95.3           DRO >C10-C28         179 10.0 mg/kg         200 89.7           Total TPH C6-C28         370 10.0 mg/kg         400 92.5           Surrogate: 1-Chlorooctane         45.8 mg/kg         50.0 91.7	93.0 8	200	81.5-123			
Surrogate: 1-Chlorooctane         47.1         mg/kg         50.0         94.3           Surrogate: 1-Chlorooctadecane         47.1         mg/kg         50.0         94.2           LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	87.5 7	200	77.7-122			
Surrogate: 1-Chlorooctadecane         47.1         mg/kg         50.0         94.2           LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	90.2	400	80.9-121			
LCS Dup (5062641-BSD1)         Prepared & Analyzed: 26-Jun-25           GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	94.3 4	50.0	44.4-145			
GRO C6-C10         191         10.0         mg/kg         200         95.3           DRO >C10-C28         179         10.0         mg/kg         200         89.7           Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	94.2 4	50.0	40.6-153			
DRO >C10-C28         179         10.0 mg/kg         200         89.7           Total TPH C6-C28         370         10.0 mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	26-Jun-25	Prepared & Analyzed: 26	5			
Total TPH C6-C28         370         10.0         mg/kg         400         92.5           Surrogate: 1-Chlorooctane         45.8         mg/kg         50.0         91.7	95.3 8	200	81.5-123	2.52	13	
Surrogate: 1-Chlorooctane 45.8 mg/kg 50.0 91.7	89.7 7	200	77.7-122	2.53	15.6	
	92.5	400	80.9-121	2.53	18.5	
	91.7 4	50.0	44.4-145			
Surrogate: 1-Chlorooctadecane 46.9 mg/kg 50.0 93.7	93.7 4	50.0	40.6-153			

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### **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

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

Celey D. Keine

Relinquished B

Time:

Received By:

Time:

O6. 26. 25

Received By:

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

Corrected Temp.°CS Observed Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Turnarqund Time:

Standard Rush 24 HR

Cool Intact

Thermometer ID #140 Correction Factor +0.3°C

Relinquished By

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

All Results are emailed. Please provide Email address: £ 5: xo/\@vu+ex resonw.con

□ Yes

O No

Add'I Phone #:

Parnian Quertexresource. com

Direct fill to EOG Resources Inc

from true

Bactéria (only) Sample Condition

cene n

Observed Temp. °C Corrected Temp. °C

trought strought

す 8 Relinquished By

Time:

Received By:

Time:

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

Corrected Temp. °C 8.~ Observed Temp: °C

Ó

Sample Condition
Cool Intact
Ves Ves
No No

CHECKED BY: (Initials)

Turnaround Time: Standar

Standard

d GOOD Back

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

REMARKS: Direct bill to

E06 Resources Inc

remia- @ worth posounds com

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Verbal Result: □ Yes □ No □ Add'l Phone #:  All Results are emailed. Please provide Email address: こりこれのののいにもしゃてもないには、このへ  ALLOW: Kのレといってもらついてとらこので、 すといってっていっています。	Add'I	ease pro	led. PI	e emai	al Resu	All R			By:	Received By:	Rece	Date: 06.26.25	Charles	Relinquished By:
				oplicable	slient for the tion of the a subsidiaries, otherwise.	amount paid by the of the same	tort, shall be limited to the ceived by Cardinal within s of use, or loss of profits i based upon any of the abo	in contract or writing and re arruptions, loss such claim is t	her based ss made in ssiness into f whether:	sing whet wed unleating the station, but ardless of the state of the s	daim ari med wa hout lim	lient's exclusive remedy for any or cause whatsoever shall be dec sequental damages, including wi ce of services hereunder by Caro	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal arisinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability an analyses. All claims includir service. In no event shall Conflictes or successors arisin
											+			
4		*	4	4	-		4		4		4	4.0	B525-13	8
			1	-	-	1170					-			J
			F	F	5	111						0.0	BSZ5- 11 U	16
			F		0	1110						4.0,	BS25-10 4	
					2	1105						(.0′		
					0	1100						4.0,	BS25-08 4	Ū
			_	F	S	1055	-		_			4.0	BS25-07 4	ا ا ا
		×	×	×		06.26.25 1050	× 06		*	İ	12	4.0	B525-06 4	
	,	Chloride	TPH: 8015 CWotide	BTEX (8		DATE TIME	ACID/BASE: ICE / COOL OTHER:	OIL SLUDGE OTHER:	WASTEWATER SOIL	GROUNDWATER	# CONTAINERS		Sample I.D.	Lab I.D.
	-	_	D	07		SAMPLING	PRESERV.	RIX	MATRIX					FOR LAB USE ONLY
			(G	21	Ĺ		Fax #:	77		1			A.Ludvik	Sampler Name:
			RO	)		703.6537	Phone #: 575, 703, 6537	P						Project Location:
			/PI	,		79706	State: Th Zip: 79706	S				eral #3	Project Name: Dolores AIL Federal #3	Project Name: N
			RO/	-			city: Midland	C		9.	EOC	Project Owner: E06	A-00478	Project #: 0_5 A - 004 78
×			m	,	2	Champions	Address: 5569 Champions Dr	A			1	Fax #:	725. 5001	Phone #: 575.
			20)	`		5 wto	Attn: Chase Set Mc	A	8	Zip: 88270	p: 6	State: NM Z		city: Carlshad
				_	0	Resoultes In	Company: £06 Resoultes Inc	C					Boyd Dr.	Address: 3101 Boyd Dr.
							P.O. #:	70					Project Manager: Chance Dixon	Project Manager
ANALYSIS REQUEST	ANA		-	1		70	BILL TO	S Take	Regulu	606	170	ervices (pirect b	Company Name: Verted Resource Services (Pirect bill to 606 Regards Fox	Company Name:

Thermometer ID #140 Correction Factor +0.3°C

24 HR

Cool Intact



February 17, 2025

**CHANCE DIXON** 

**VERTEX RESOURCE** 

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 02/13/2025 Reported: 02/17/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 02/05/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BS 25 - 03 6' (H250887-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	GC-NC
Ethylbenzene*	0.351	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	1.90	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	2.25	0.300	02/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	142	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	02/14/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	162	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	1000	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	157	10.0	02/14/2025	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-1 <i>4</i>	o						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### **Notes and Definitions**

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

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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

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

Celeg D. Freene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



L	0/0) 333-2320 FAX (3/3) 383-24/6			
Company Name: Vertex/EOG	1806	BILL TO	ANALYSIS REQUEST	
Project Manager: Chance Dixon	Dixon	P.O. #:		$\neg$
Address: On File		Company: EOG		
City:	State: Zip:	Attn: Chose Settle		
Phone #:	Fax #:	Address:		
Project #: 25 #-05478	Project Owner:	City:		
Project Name: DOIORS ATL	AIL Federal #3	State: Zip:		
Project Location: CGNSbad NM		Phone #:		
Sampler Name: Bileu Ar	Arrold	Fax #:		
FOR LAB USE ONLY	OMP.	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)( # CONTAINERS GROUNDWATE WASTEWATER OIL	SLUDGE OTHER: ACID/BASE: CEV COOL OTHER:	BTEX TPH CI	
65:25-03	,	2/5	7 7	
FASE NOTE: I ishlik and Currount Currount States				
nalyses. All claims including those for negligence and any orvice. In no event shall Cardinal be liable for incidental or of filliates or successors arising out of or related to the perform	nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, filliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	on or one, when we mine up use amount peas by the creen, it and received by Cardinal within 30 days after completion of its, loss of use, or loss of profits incurred by client, its subsidial in its based upon any of the above stated reasons or otherwise.	the applicable aries, and a second aries, and	
CRL	Time: 213 Received By:	All Results are	Verbal Result: ☐ Yes ☐ No Add'i Phone #: All Results are emailed. Please provide Email address:	
kelinquisned by:	Time: Received By:	REMARKS:	S	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C O Sample Condition Coorected Temp. °C O Tres Tres Corrected Temp. °C O Tres Corrected Temp. °C O Tres Coorected Temp. °C O Tres Co	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition  Rush Cool Intact Observed Temp. °C  Thermometer ID #140  Correction Factor 348°C  Corr	



February 20, 2025

**CHANCE DIXON** 

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/18/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 02/18/2025 Reported: 02/20/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 02/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH25 - 03 @ 8' (H250955-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	02/19/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	60.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

A ... - b ... - d D. .. 711

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### **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

covery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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

Celeg & Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Relinquished By:  Relinquished By:  Relinquished By:  Relinquished By:	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the public analyses. All claims including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicantly analyses. All claims including those for negligence and any other cause whistoever shall be deemed waived unless interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.	K150755 8HZ5-03	1	n -	Project Name: Dalores A	Project #: 25 A-00478	Phone #:	City:	anager: (	1	- 3
Receives Relinquished By:  Relinquished By:  Received Date:  R	I's liability and client's exclusive remedy for a co and any other cause whatsoever shall be nodental or consequental damages, includin	03 &	Sample I.D.	ce Dixon	es ATL Federal # 3	X.	Fax #:	State:	HANCE DIXON	CX/ COM	TT S
Received By:  Received By:  Received By:  Cool Intact	ry claim arising whether based in contra deemed waked unless made in writing deemed waked unless made in writing g without instation, business interruption	-#	CONTAINERS CONTAINERS CROUNDWATER VASTEWATER COLL CLUDGE	MATRIX	5#/B			Zip:			6
CHECKED BY:	ct or tort, shall be limited to the amount pa and necewed by Candinal within 30 days alto s, loss of use, or loss of profits incurred by m is based upon any of the above stated it	7 2/11	OTHER: ACID/BASE: CEV COOL OTHER:	PRESERV. SAMPLING	Phone #:		Address:	X	Company: EOG	P.O. #:	BILL TO
Verbal Result:	pplicable	6:00	BTEX	80				the			
Verbal Result:			CI								ANALYSIS REC
address:  Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Cool No No Corrected Temp. °C								-			REQUEST



June 27, 2025

**CHANCE DIXON** 

**VERTEX RESOURCE** 

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 06/26/25 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: WS25 - 01 0-4' (H253889-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.17	108	2.00	0.203	
Toluene*	<0.050	0.050	06/26/2025	ND	2.12	106	2.00	0.874	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.11	105	2.00	0.293	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.17	103	6.00	0.296	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	74.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	70.4	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: WS25 - 02 0-4' (H253889-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.17	108	2.00	0.203	
Toluene*	<0.050	0.050	06/26/2025	ND	2.12	106	2.00	0.874	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.11	105	2.00	0.293	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.17	103	6.00	0.296	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	73.2	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	68.6	% 40.6-15	3						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition:

Sample Received By: Alyssa Parras

\*\* (See Notes)

### Sample ID: WS25 - 03 0-4' (H253889-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	72.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	68.1	% 40.6-15	3						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: WS25 - 04 0-4' (H253889-04)

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	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
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	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	73.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.2	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: WS25 - 05 0-4' (H253889-05)

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	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	74.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.8	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 01 4.0' (H253889-06)

RTFY 8021R

B1EX 8021B	mg,	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	71.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.1	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

Sample ID: BS25 - 02 4.0' (H253889-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	71.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.6	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 03 4.0' (H253889-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	71.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.2	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 04 4.0' (H253889-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	74.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	69.6	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 05 4.0' (H253889-10)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	< 0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	< 0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	71.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	67.7	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: BS25 - 06 4.0' (H253889-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
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	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	71.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.3	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: BS25 - 07 4.0' (H253889-12)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	72.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.1	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

**DOLORES AIL FEDERAL #3** 

Project Name: Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: BS25 - 08 4.0' (H253889-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	76.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.6	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

mg/kg

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil
Sampling Condition: \*\* (See Notes)

Sample Received By: Alyssa Parras

### Sample ID: BS25 - 09 4.0' (H253889-14)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/26/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/26/2025	ND					
Surrogate: 1-Chlorooctane	70.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	65.9	% 40.6-15	3						

Analyzed By: JH

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 10 4.0' (H253889-15)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	186	93.0	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	175	87.5	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					
Surrogate: 1-Chlorooctane	72.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.5	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: BS25 - 11 4.0' (H253889-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	215	107	200	3.29	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	196	98.2	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					
Surrogate: 1-Chlorooctane	85.1	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.6	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Alyssa Parras

### Sample ID: BS25 - 12 4.0' (H253889-17)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	215	107	200	3.29	
DRO >C10-C28*	19.6	10.0	06/27/2025	ND	196	98.2	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					
Surrogate: 1-Chlorooctane	93.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	89.6	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/26/2025 Reported: 06/27/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/26/2025

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Alyssa Parras

### Sample ID: BS25 - 13 4.0' (H253889-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2025	ND	2.11	106	2.00	5.07	
Toluene*	<0.050	0.050	06/26/2025	ND	2.13	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	06/26/2025	ND	2.13	106	2.00	3.99	
Total Xylenes*	<0.150	0.150	06/26/2025	ND	6.38	106	6.00	4.10	
Total BTEX	<0.300	0.300	06/26/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/27/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	215	107	200	3.29	
DRO >C10-C28*	145	10.0	06/27/2025	ND	196	98.2	200	3.07	
EXT DRO >C28-C36	35.2	10.0	06/27/2025	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.9	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### **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

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

Celeg D. Freene

Relinquished B

Time:

Received By:

Time:

Date: 06.26.25

Received By:

Verbal Result:

O No

Add'l Phone #:

uental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Sampler - UPS - Bus - Other:

Corrected Temp.°CS Observed Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Turnarqund Time:

Standard Rush 24 HR

也口

Bactéria (only) Sample Condition

ce ne n

Observed Temp. °C Corrected Temp. °C

Cool Intact

Thermometer ID #140 Correction Factor +0.3°C

Delivered By: (Circle One)

Relinquished By

service. In no event shall Cardinal be liable for incidental or conseq

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Project Manager: (Mance 5: Xon Address: 3101 BOYd Drive  Address: 3101 BOYd Drive  Company: FD & Resource Inc.
State: NM Zip: 88 220
₹ 500\ Fax #:
Project #: 25A-00478 Project Owner: 606 City: Midland
Fed
*.
Sampler Name: A, Ludvik Fax #:
G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:
MS25-01 0-4, CE1 X
W525-02 0-4".
3 W525-03 O-4'
W\$25-04 0-4"
8525-01 4.0
3 8525-02 4.0°
8 8575-03 4.0
9 BS25-04 4.0'
BC25-05 4.0' UTT T

All Results are emailed. Please provide Email address: £ 5: XON@VUTEX resonw.com

Parnian Quertexresource. com

Direct fill to EOG Resources Inc

from true

trought strought

す E Relinquished By

Date:

Time:

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

Corrected Temp. °C 8.~ Observed Temp: °C

Ó

Sample Condition
Cool Intact
| Yes | Yes | Yes | No | No | No |

CHECKED BY: (Initials)

From Full St. Turnaround Time: St.

Standard

Bacteria (only) Sample Condition
Cool Intact: Observed Temp

Thermometer ID #140 Correction Factor +0.3°C

24 HR

Cool Intact

Observed Temp. °C Corrected Temp. °C

REMARKS: Direct bill to E06 Resources FAC

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

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

Company Name: Nother Decounce Services ( Pirect bill to 606 Remarks Inc.)	BILL TO	ANALYSIS REQUEST
Project Manager: Chance Dixon	P.O. #:	
Address: 3101 Book Dr.	Company: 606 Resources Inc	
city: Carlshad state: NM zip: 88220	Attn: Chase Settic	20)
Phone #: 575, 725, 500\ Fax #:	Address: 5569 Champions Dr	
Project #: 0.5 R - 00478 Project Owner: F06	city: Midland	
Feder	State: Th Zip: 74706	/D#
Project Location:	Phone #: 675, 703, 6537	ROJ
Sampler Name: A.L.duik	Fax #:	
	PRESERV. SAMPLING	
(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX (
8525-06 4.0° C 1	K 06.76.25 1050	* *
. 8525-07	.1 1 1055	
BS25-08	1100	
	5011	
	1110	
BSZ5- 11	1115	
	1170	
	\$ W 1125	\$ \Lambda \tau \tau \tau \tau \tau \tau \tau \ta
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	ract or tort, shall be limited to the amount paid by the clie	nt for the
analyses. All claims including those for negligence and any other cause whatscever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the pplicable service, in no event shall Cardinal be labele for incidental or consequented damages, including whother limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall Cardinal be labele for incidental or consequence of services between the consequence of the the	and received by Cardinal within 30 days after completions; loss of use, or loss of profits incurred by client, its sualin is based upon any of the above stated reasons or of	of the applicable
Relinquished By: Date: Received By:	Verba	Verbal Result:   Yes   No Add'I Phone #:
Time:	Arco	All results are entailed. Flease provide Entail address. Explored Por For Explored. Com
	,	



July 01, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 06/30/25 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: BS 25 - 14 4' (H253928-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/01/2025	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	1500	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	1380	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	93.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	153	% 40.6-15	3						

Applyand By 14

## Cardinal Laboratories \*=Accredited Analyte

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

Celey & Keene



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: BS 25 - 15 4' (H253928-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	GC-NC
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	139	% 71.5-13	34						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/01/2025	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.2	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	705	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	125	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	94.2	% 40.6-15	:3						

### Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keine



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: BS 25 - 16 4' (H253928-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	< 0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	14						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	260	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	53.4	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	89.1	% 40.6-15	:3						

### Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: WS 25 - 07 0-4' (H253928-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	< 0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	89.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.3	% 40.6-15	3						

## Cardinal Laboratories \*=Accredited Analyte

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

Celey & Keene



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: WS 25 - 06 0-4' (H253928-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	84.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.3	% 40.6-15	3						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/30/2025 Reported: 07/01/2025

Project Name: **DOLORES AIL FEDERAL #3** 

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: BACKFILL - 01 0' (H253928-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.4	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### Analytical Results For:

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

Received: 06/30/2025

Reported: 07/01/2025
Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 06/30/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: BACKFILL - 02 0' (H253928-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2025	ND	1.98	99.2	2.00	8.22	
Toluene*	<0.050	0.050	06/30/2025	ND	2.14	107	2.00	11.9	
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.19	109	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	6.78	113	6.00	14.0	
Total BTEX	<0.300	0.300	06/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/01/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2025	ND	210	105	200	1.02	
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	197	98.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	75.7	% 40.6-15	3						

## Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



### **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

ecovery.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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

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

Celeg D. Freene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallat/snm.com

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326	FAX (575) 393-2476	476							SISA IVIN		RECHEST	TST	1		
Company Name:	Vertex	1			BILL 10	-	1	1	1	- 15	-	1	-	$\forall$	+	+
Project Manager:	27	Dixon		P.O.	*			14				_	_	_	_	
Address: 310	0 -	_ '		Com	Company: EoG	Resource	_				_		_	_		
arts	book	State:NM	Zip: 88 2	220 Attn:	Attn: Chase 5	Settle	-	,					_	_		
# 5	75. 725. 500   Fax #:	O / Fax #:		Address	ess:								_	_	-	
,	A	8 Project Owner:	# E06	City:								_			_	
me:	2	AIL Federa	eral #3	State:	Zip:		_1	5	_					_	_	
3	000	•		Phone	ne #:		2 5	1;	_				_	_		(4
Campler Name				Fax #:	**		80	80					_	_		_
FOR LAB LISE ONLY	2050	1000		MATRIX P	PRESERV. / S	SAMPLING							a)	14-	_	_
TOR ORD OUT OWN							(							12	_	
	Sample I.D.	e I D	OR (C)C INERS OWATE		OL		E	H	1				*	-	_	
			CONTA	UDGE	THER	TIME	BT	TF	4				_	-	6	
1003100	2675-14	L .	- #	× 5	× 1	0440 52	X	X	.>					H	-	-
2		4.	-	×		2450	÷	-				1	-	+	+	-
هيد	-	4,	0 1	×	×	0950		-	-					+	-	+
	0	0'-4'	- 2	×	×	10:00							-	+		-
		0,-4,	1 )	×	×	2580	-						1	,	+	+
	- 1	01 0	1 7	×	×	1020							-	+	+	+
		2	C 1	×	*	1080	+	4	4							
															-	
PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the applicable.	and client's exclusive remedy for other cause whatsoever shall it	r any claim arising whethe be deemed waived unless tion without limitation, bus	ient's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the reause whatscoever shall be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the received by client, the subsidiarios of the completion of the comple	shall be limited to the amo ad by Cardinal within 30 do use, or loss of profits incur	ount paid by the client for the lays after completion of the a red by client, its subsidiaries.	the he applicab ries,	8								
affiliates or successors arisin	affiliates or successors arising out of or related to the performan	15	nder by Cardinal, regardless of white Received By:	whether such claim is base.  Y:	her such claim is based upon any of the above st	Verbal Result:	sult:	□ Yes	□ No	Add'l Phone #:	hone #			0	1	in other trans
Relinquisned by	1	) W	-	Sapa Sapa	Non	All Results	are en	nailed.	All Results are emailed. Please provide Email address:	rce . Co	addres	Per	Permian @ vertex resou	8 6	chex	(430
Relinguished By:	1	Date:	Received By:	y:	0	REMARKS:		11:8	7.	EOG		6500	Resources	- 4	TIME.	
		Time:							\						3	
Delivered By: (Circle One)	ircle One)	Observed Temp. °C	0.	Sample Condition Cool Intact	CHECKED BY: (Initials)	. 3	nd Time		Standard	ÞE	Bacteria (onl Cool Intact	ia (only ntact		rved Te	Observed Temp. °C	
Sampler - UPS - Bus - Other:	Bus - Other:	Corrected Temp. %		AYes HYes	8	Correction Factor +0.3°C	Factor +	0.3°C	24 6	hr /	N S	No O No		ected To	Corrected Temp. °C	



July 08, 2025

CHANCE DIXON

**VERTEX RESOURCE** 

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 07/07/25 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 07/07/2025 Reported: 07/08/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 07/07/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: BS 25 - 14 5' (H254030-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	0.272	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	GC-NC1
Total BTEX	<0.300	0.300	07/07/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.1	10.0	07/07/2025	ND	198	98.9	200	5.05	
DRO >C10-C28*	491	10.0	07/07/2025	ND	190	94.9	200	2.81	
EXT DRO >C28-C36	77.2	10.0	07/07/2025	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	87.6	% 40.6-15	3						

A ..... I ..... . J D. ... 711

Cardinal Laboratories \*=Accredited Analyte

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

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Sample Received By:

07/07/2025

Alyssa Parras

### Analytical Results For:

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

Received: 07/07/2025 Sampling Date:

Reported: 07/08/2025 Sampling Type: Soil
Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

### Sample ID: WS 25 - 08 4' - 5' (H254030-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2025	ND	2.08	104	2.00	0.718	
Toluene*	<0.050	0.050	07/07/2025	ND	2.21	110	2.00	0.671	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.01	101	2.00	0.132	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.04	101	6.00	0.0216	
Total BTEX	<0.300	0.300	07/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/08/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2025	ND	198	98.9	200	5.05	
DRO >C10-C28*	12.7	10.0	07/07/2025	ND	190	94.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.2	% 40.6-15	3						

Cardinal Laboratories \*=Accredited Analyte

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

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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

Me Soush

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

		BILL TO	-	ANALYSIS REQUEST	_
Chance	( ) X & O C C G /	P.O. #:	_		_
or Boyd	0	Company: EO 6	44.0		
City: Carlsback	State: NM Zip: 88220	Attn: Chase, Settle			
10#: 575-725.	5001 Fax #:	Address: 5509 chamtion	U		_
25A-0647	Project Owner: Eo G	city: Midland	. /		_
	AIL Federal #3	State: Tx Zip: 79706			_
š		Phone #: 575, 703.6	6537		_
Sampler Name: 1.50	Rewis				_
	MP.	X PRESERV. SAMPLING	(80		
Lab I.D. Samp	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE  OTHER: ACID/BASE: ICE / COOL  OTHER:	BTEX	Chlorid	
B525-14	. S' C1 X	× 7.7.25	0930 X X	*	
	08. 4'-5' C1 ×	7.7.25 oq	0935 X	×	
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and a service. In no event shall Cardinal be liable for incidental	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived upless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whole limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdidaries, and the profits of the consequence of the profits incurred by client, its subdidaries, and the profits of the consequence of the profits of th	contract or tort, shall be limited to the amount peld by the titing and received by Cardinal within 30 days after compliging and received by Cardinal within 30 days after compligions, loss of use, or loss of profits incurred by client, its heart in the period and of the above stated reasons.	client for the letton of the applicable subsidiaries.		
Relinquished By: Relinquished By:	Relinquished By:  Date: Received By: Received By: Verbal Res.  Time: Received By: Received By: Remarks.  Relinquished By: Received By: Remarks.	Ver All F Pe	Verbal Result: □ Yes All Results are emailed. Plea Permian @ vertex REMARKS: Direct	Verbal Result: □ Yes □ No   Add'! Phone #: All Results are emailed. Please provide Email address: くることの ② Vertexできるひでに Permian @ vertexce5ousse.com ③でという@ vertexsesoussessessessessessessessessessessessesse	2 5
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C Sample Condition Cool Intact Cool I	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #140 . Correction Factor +0.3°C	Standard Bacteria (only) Sample Condition .  Rush Cool Intact Observed Temp. °C  24 h No No Corrected Temp. °C	

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 500650

### **QUESTIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	500650
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2513446761
Incident Name	NAPP2513446761 DOLORES AIL FEDERAL #3 @ 30-015-26722
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-26722] DOLORES AIL FEDERAL #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DOLORES AIL FEDERAL #3
Date Release Discovered	01/23/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for Crude Oil Released (bbls) Details	or the volumes provided should be attached to the follow-up C-141 submission.  Cause: Corrosion   Pipeline (Any)   Crude Oil   Released: 5 BBL   Recovered: 1 BBL   Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 20 BBL   Recovered: 0 BBL Lost: 20 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)	Initial release reported as 4 bbls, upon delineation and investigation of the impact area, it was further determined to be a larger release. Calculated to be ~5 bbls crude oil and ~20 bbls produced water.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 500650

QUESTIONS (c	continued)
--------------	------------

Operator:  EOG RESOURCES INC 5509 Champions Drive	OGRID: 7377 Action Number:
Midland, TX 79706	500650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 05/20/2025

General Information Phone: (505) 629-6116 Online Phone Directory

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

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

QUESTIONS, Page 3

Action 500650

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	500650
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

al and beyond). This information must be provided to the appropriate district office no later than 90 days after the
Between 100 and 500 (ft.)
NM OSE iWaters Database Search
No
and the following surface areas:
Between 1 and 5 (mi.)
Greater than 5 (mi.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Greater than 5 (mi.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Greater than 5 (mi.)
Between 1 and 5 (mi.)
Low
Greater than 5 (mi.)
Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	33600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	39270	
GRO+DRO (EPA SW-846 Method 8015M)	34390	
BTEX (EPA SW-846 Method 8021B or 8260B)	413	
Benzene (EPA SW-846 Method 8021B or 8260B)	6.4	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	06/20/2025	
On what date will (or did) the final sampling or liner inspection occur	06/20/2025	
On what date will (or was) the remediation complete(d)	07/01/2025	
What is the estimated surface area (in square feet) that will be reclaimed	3025	
What is the estimated volume (in cubic yards) that will be reclaimed	600	
What is the estimated surface area (in square feet) that will be remediated	3025	
What is the estimated volume (in cubic yards) that will be remediated	600	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 9/12/2025 10:22:07 AM

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 4

Action 500650

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	500650
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

4		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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

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

Name: Chase Settle
Title: Safety & Environmental Rep II
Email: chase\_settle@eogresources.com
Date: 05/20/2025

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 500650

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	500650
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 6

Action 500650

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive Midland, TX 79706	Action Number: 500650
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	480657
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/07/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

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	3020	
What was the total volume (cubic yards) remediated	1264	
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	3020	
What was the total volume (in cubic yards) reclaimed	1264	
Summarize any additional remediation activities not included by answers (above)	The attached document provides a comprehensive report of all remediation activities completed for the site.	

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.

Name: Chase Settle
Title: Safety & Environmental Rep II
Email: chase\_settle@eogresources.com
Date: 08/29/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 500650

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	500650
	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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 500650

### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive Midland, TX 79706	Action Number: 500650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Create By	d Condition	Condition Date
nvele	z None	9/12/2025