#### \*\*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*\*

1/23/2025 Location of spill: Dolores AIL Federal #3 Date of Spill: If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: X Input Data: OIL: WATER: If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here: 0.0000 BBL 0.0000 BBL If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes **Total Area Calculations Standing Liquid Calculations Total Surface Area** width length wet soil depth oil (%) Standing Liquid Area width length liquid depth oil (%) 21 ft Rectangle Area #1 Х Rectangle Area #1 10 ft 150 ft Х 3.75 in Х 17 ft Х 1 in 1009 Rectangle Area #2 0 ft X 0 ft 0.00 in Rectangle Area #2 0 ft 0 ft 0 in X X X X X X X 0% X X X X X X X X Х 0% Х Rectangle Area #3 0 ft X 0 ft 0.00 in 0% Rectangle Area #3 0 ft 0 ft 0 in 0% X X X 0 ft X Rectangle Area #4 0 ft 0.00 in 0% Rectangle Area #4 0 ft 0 ft 0 in 0% 0 ft X 0 ft X Rectangle Area #5 Rectangle Area #5 0 ft 0.00 in 0% 0 ft 0 ft 0 in 0% Rectangle Area #6 Rectangle Area #6 0.00 in 0 ft 0% 0 ft 0 ft 0 in 0% 0 ft X Х Х Rectangle Area #7 0 ft 0.00 in 0% Rectangle Area #7 0 ft 0 ft 0 in 0% 0 ft Rectangle Area #8 0 ft X Х 0.00 in Rectangle Area #8 0 ft Х 0 ft Х 0 in 0% 0% okay production system leak - DAILY PRODUCTION DATA REQUIRED Average Daily Production: Water Oil BBI 0 BBI X N/A (place an "X") Did leak occur before the separator?: YES Amount of Free Liquid Percentage of Oil in Free Liquid 1 BBL 50% (percentage) okay Recovered: Recovered: Liquid holding factor \*: 0.14 gal per gal Use the following when the spill wets the grains of the soil. Use the following when the liquid completely fills the pore space of the soil: \* sand = .08 gallon liquid per gallon volume of soil. Occures when the spill soaked soil is contained by barriers, natural (or not). \* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil. \* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil. sandy clay loam soil = .14 gallon liquid per gallon volume of soil. \* sandy loam = .5 gallon liquid per gallon volume of soil. \* clay loam = .16 gallon liquid per gallon volume of soil. Saturated Soil Volume Calculations: Free Liquid Volume Calculations: <u>OIL</u> 7.083 cu. ft. <u>H2O</u> <u>OIL</u> 148 cu. ft. <u>H2O</u> Total Solid/Liquid Volume: 3,150 sq. ft. 837 cu. ft. Total Free Liquid Volume: 170 sq. ft. 000 cu. ft. Estimated Volumes Spilled Estimated Production Volumes Lost H2O 20.9 BBL 0.0 BBL H2O OIL 0.000000 BBL 3.7 BBL Liquid in Soil: Estimated Production Spilled: 0.000000 BBL Free Liquid: 1.3 BBL Totals 20.862 BBL 4.943 BBL Estimated Surface Damage Surface Area 3,150 sq. ft. Total Liquid Spill Liquid: 20.862 BBL 4.943 BBL Surface Area: .0723 acre Recovered Volumes Estimated Weights, and Volumes Estimated oil recovered: 0.5 BBL check - okay Saturated Soil = 110,250 lbs 984 cu.ft. 36 cu.yds. 0.5 BBL check - okay Total Liquid = 26 BBL 1,083.82 gallon 9,017 lbs

Estimated water recovered:

#### **Environmental Site Remediation Work Plan**



### **General Information**

County:	Eddy	Incident ID:	Unknown
Landowner:	Federal	Location:	32.393634, -103.742007
Client:	EOG Resources, Inc.	Site Location:	Dolores AIL Federal #003
Date:	February 22, 2025	Project #:	25A-00478
Client Contact:	Chase Settle	Phone #:	575.703.6537
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

#### Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the incident at Dolores AIL Federal #003. The incident was caused by internal erosion of the poly flow line. The release was initially reported as 3 barrels of oil and 1 barrel of produced water with one barrel of material recovered. However, further site investigation revealed that the original release estimate was under-reported from the field. The official calculated release estimate is 5 barrels of oil and 20 barrels of produced water. Areas of environmental concern identified and delineated include: the pasture adjacent to the northwest corner of the pad. Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29.12. All applicable research as it pertains to closure criteria selection is presented in Attachment 2. The closure criteria for the site is presented below.

Table 1. Closure Criteria for Soils to Re	emediation & Reclamatio	n Standards
	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
0-4 leet 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
	BTEX	50 mg/kg
	Benzene	10 mg/kg

DTGW - Depth to groundwater

bgs – Below ground surface

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

#### Site Assessment/Characterization

Site characterization began on February 4, 2025, and was completed on February 5, 2025. A total of seven sample points were established and 23 samples collected for field screening. Samples at the deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 19 samples were submitted to Cardinal Laboratories, Hobbs, New Mexico, for analysis. The sample locations are presented in Attachment 1. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Attachment 2. Exceedances are identified in the table as bold with a green background.

#### **Remedial Activities**

#### General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extents of the known contamination in exceedance to the closure criteria

#### **Environmental Site Remediation Work Plan**

presented in Table 1. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Field screening and laboratory analysis were utilized to find the horizontal and vertical extents of the spill area. A total of 23 samples were collected for analysis in the pasture adjacent to the constructed pad. Heavy equipment will be used to complete excavation of the release. Field screening from five-point composite samples at 200-square-foot intervals will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated **is 8,140 cubic yards**.

Sample Point	Excavation Depth	Remediation Method
BH25-01	7'	Backhoe
BH25-02	7'	Backhoe
BH25-03	7'	Backhoe

### Variance Request

Vertex would like to request a variance for the closure criteria of the site. The most recent DTGW data in the vicinity of the site is an exploratory borehole which was overseen by Carmona Resources, LLC. (Carmona). The borehole was placed approximately 0.74 miles away from the site, which is outside of NMOCD's required 0.5-mile window. It was recorded as a dry hole at 105 feet bgs in 2022. The proposed variance seeks to assume the >100 feet closure criteria listed in Table 1 of 19.15.29.12 NMAC. There is also a reference from the New Mexico Office of the State Engineer (NMOSE) located approximately 1.26 miles away (C-4144 POD 13). Details for the bore logs associated with the DTGW references described above are located in Attachment 3. With no other water or karst receptors being affected at the site, there are no groundwater risks associated with the site, and it will provide equal protection to the environment.

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

ohn Rewis

hn Rewis, B.Sc.

5/15/2025

Date

hance Dixon

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

5/15/2025

Date

Attachments

Attachment 1. Characterization Sampling Site SchematicAttachment 2. Characterization Analytical SummaryAttachment 3. Closure Criteria ResearchAttachment 4. Laboratory Data Reports and Chain of Custody Forms

# **ATTACHMENT 1**

Received by OCD: 5/20/2025 2:57:29 PM



# **ATTACHMENT 2**

Client Name: EOG Resources Inc. Site Name: Dolores AIL Federal #3 Project #: 25A-00478 Lab Report: H250711, H250887, H250955

		Table 3. Cha	racterizati	ion Sample	e Laborato	ory Results	5			
			Petrole	eum Hydrod	arbons					
			Vola	Volatile Extractable						Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	kg) (mg/kg) (mg Depth to Groundwa 0 9040 1 0 ND 1	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			4.00	400				0	40050	22.522
		February 4, 2025	1.83	106	2160		1650	11200	12850	33,600
BH25-01 BH25-02		February 4, 2025	ND	ND	ND		ND	ND	ND	7,400
	-	February 4, 2025	ND	ND	ND	19.2	ND	19.2	19.2	2,600
		February 4, 2025	6.44	261	6690	27700	4880	34390	39270	8,480
BH25-02	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	288
	4.0	February 4, 2025	ND	ND	ND	137	20.2	137	157.2	10,000
	0.0	February 4, 2025	17.6	413	5620	18500	3650	24120	27770	9,400
	2.0	February 4, 2025	5.86	271	4710	13900	1390	18610	20000	4,480
BH25-03	4.0	February 4, 2025	ND	2.45	85.9	1090	185	1175.9	1360.9	6,130
	4.0 BH25-02 2.0 4.0 0.0 2.0 8H25-03 4.0 6.0 8.0 BH25-04 0.0 2.0	February 5, 2025	ND	2.25	162	1000	157	1162	1319	5,460
	8.0	February 5, 2025	ND	ND	ND	60	ND	60	60	14,400
	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
вп25-04	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-06	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BU25 07	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-07	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



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# **ATTACHMENT 3**

•

	e: DOLORES AIL FEDERAL #3		V 11714 050 4700 4	
	dinates: 32.393339, -103.741514	X: UTM 618364.55	Y: UTM 3584732.1	
te Spec	fic Conditions	Value	Unit	
	Depth to Groundwater (nearest reference)	>105	feet	
1	Distance between release and nearest DTGW reference	3,907 0.74	feet miles	
	Date of nearest DTGW reference measurement	-	2, 2022	
	Within 300 feet of any continuously flowing watercourse		2, 2022	
2	or any other significant watercourse	8,314	feet	
	Within 200 feet of any lakebed, sinkhole or playa lake			
3	(measured from the ordinary high-water mark)	35,559	feet	
	Within 300 feet from an occupied residence, school,			
4	hospital, institution or church	32,165	feet	
	i) Within 500 feet of a spring or a private, domestic fresh			
	water well used by less than five households for	8,208	feet	
5	domestic or stock watering purposes, <b>or</b>			
	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	No	(Y/N)	
0	NMSA 1978 as amended, unless the municipality specifically approves	NO		
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 Critical High Medium Low	
9	Within an unstable area (Karst Map)	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	к	ТM	
12	Ecological Classification	Deep	Sand	
13	Geology	۵	ер	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	





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 - C-4144 POD 13



### 3/4/2025, 1:44:18 PM





# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

### OFFICE OF THE STATE ENGINE

www.ose.state.nm.us

z	OSE POD NO. POD 13	WELL NO	.)		WELL TAG ID NO	D.		OSE FILE NO(S	S).		
CATIO	WELL OWNER EOG Resour							PHONE (OPTIO 432-848-914			
VELLLO	WELL OWNER 5509 Champ						2×1	CITY Midland		STATE Texas	ZIP 79706
1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS		TITUDE	32 -103	MINUTES 24 43	SECON 08.8 23.2	<sup>32</sup> N		REQUIRED: ONE TENT QUIRED: WGS 84	TH OF A SECOND	1.1
1. GEN		NRELATIN	NG WELL LOCATION TO		ESS AND COMMO	ON LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO. 1664	ţ	NAME OF LICENSED	DRILLER	Shawn Cain				NAME OF WELL DRI	LLING COMPANY ascade Drilling	
	DRILLING ST. 8/5/2		DRILLING ENDED 8/10/21	DEPTH OF CO	MPLETED WELL (I NA	FT)		LE DEPTH (FT) 105	DEPTH WATER FIRS	ST ENCOUNTERED (F NA	T)
z	COMPLETED	WELL IS:	ARTESIAN	V DRY HOL	E 🗌 SHALLO	OW (UNCO)	NFINED)		STATIC WATER LEV	EL IN COMPLETED V NA	VELL (FT)
TIO	DRILLING FL	JID:	AIR	MUD	ADDITI	VES – SPEC	IFY:				
RMA	DRILLING ME	THOD:	ROTARY	HAMMER	CABLE	TOOL	✓ OTHE	R - SPECIFY:	F	Roto Sonic	
INFO	DEPTH (I		BORE HOLE	CASING	MATERIAL AN GRADE	D/OR		ASING	CASING	CASING WALL	
2. DRILLING & CASING INFORMATION	FROM	то	DIAM (inches)		each casing string, and sections of screen) (a		CONNECTION TYPE (add coupling diameter)		INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)
ING &											-
2. DRILI											
									OSE DIT NOU	24 2021 PML;	38
	DEPTH (	feet bgl)	BORE HOLE		ST ANNULAR S				AMOUNT		OD OF EMENT
RIAI	FROM 0	TO 105	DIAM. (inches)	GRA	VEL PACK SIZI			TAL	(cubic feet)	N	Pumped
3. ANNULAR MATERIAL		105									
FOR	OSE INTERN	JAL USE		1				WR_2	0 WELL RECORD	& LOG (Version 04	/30/19)
	E NO.	AL USE			POD N	Ю.		TRN 1		a coo (version o	
LOC	ATION							WELL TAG I	D NO.	PAC	E 1 OF 2

	DEPTH (feet by		THICKNESS	COLOR AND TYPE OF MATERIAL ENC	OUNTERED -		TER	ESTIMATEI YIELD FOR
	FROM 1	го	(feet)	INCLUDE WATER-BEARING CAVITIES OR F (attach supplemental sheets to fully descr		1.1112.245	RING? / NO)	WATER- BEARING ZONES (gpm
	0	6	6	Fine Silty Sand Red/Brown		Y	🖌 N	
	6	10	4	Caliche		Y	✔ N	
	10	15	5	Fine Clayey sand brown		Y	✔ N	
	15 3	25	10	Fine sandstone brown		Y	✔ N	
	25	60	35	Fine silty sandstone Brown		Y	✔ N	
	60	70	10	Fat Clay Brown		Y	✔ N	
	70	85	15	Fine silty sandstone Brown		Y	✔ N	
	85 1	05	20	Fine to Medium Sandstone		Y	✔ N	
						Y	N	
						Y	N	1
		-				Y	N	
						Y	N	
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	PRINT NAME(S) Jason Camp	) OF DRI	EE NO SOT ER				DIHER II	IAN LICENSE
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# National Wetlands Inventory

# **Dolores AIL Federal #3** Watercourse 8,314ft



#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

**Freshwater Pond** 

Lake Other Riverine 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.

U.S. Fish and Wildlife Service

# National Wetlands Inventory

Page 16 of 66



#### February 23, 2025

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine

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



Nearest Residence: 6.09 miles 32,165 ft.

in

 Legend
 Page 17 of 66

 32.069112, -104.040963
 35015C

 Feature 1
 Feature 1

32.393339, -103.741514

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COMMUTE - WIPP

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Residence

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EN.

2 mi

Residence 27

La Nortenita

Google Earth

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v			(acre ft per annum)					and no	D has been replaced longer serves this file, 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	<u>C 04144 POD34</u>	NA			
					LE	<u>C 04144 POD6</u>	NA			
					LE	<u>C 04144 POD12</u>	NA			
<u>C 04740</u>	CUB	MON	0.000	OXY USA INC.	ED	<u>C 04740 POD1</u>	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>				Artesiaı
<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>				Shallow
<u>C 04695</u>	CUB	MON	0.000	OXY USA INC.	LE	<u>C 04695 POD1</u>	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>				Artesiaı
<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	<u>C 04598 POD1</u>	NA			
<u>C 02639</u>	CUB	MON	0.000	U.S. DEPARTMENT OF ENERGY	ED	<u>C 02639</u>				

U.S. Fish and Wildlife Service

National Wetlands Inventory

# Dolores AIL Federal Wetland 19,149ft



Other

Riverine

Freshwater Forested/Shrub Wetland

**Freshwater Pond** 

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Released to Imaging: 6/2/2025 2:44:55 PM

be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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Dolores AIL Federal #3 Mine 41,886ft



EMNRD MMD GIS Coordinator

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## Received by OCD. 5/20/2025 2:57:29 PM DOLORES AIL FEDERAL #3

Nearest FEMA Zone A: 10.18 miles 53,744 ft.



32.393339, -10

N

Google Earth

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4 mi

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### Received by OCD: 5/20/2025 2:57:29,PM National Flood Hazard Layer FIRMette



### Legend

Page 23 of 66



Basemap Imagery Source: USGS National Map 2023



USDA United States Department of Agriculture

> Natural Resources Conservation Service

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

# **Custom Soil Resource Report for Eddy Area, New Mexico**



# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit-Berino fine sands, 0 to 3 percent slopes	3.0	100.0%
Totals for Area of Interest		3.0	100.0%

# **Map Unit Descriptions**

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

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

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

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

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

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

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

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

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

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

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

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

### 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 *Received by OCD: 5/20/2025 2:57:29 PM* 

# Dolores AIL Federal #3 Geology



Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perenial standing water
  - Qa—Alluvium (Holocene to upper Pleistocene)



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

### **ATTACHMENT 4**



February 12, 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 02/06/25 13:18.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220		
	Fax To: NA		
Received:	02/06/2025	Sampling Date:	02/04/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	25A - 00478	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG		

#### Sample ID: BH25 - 01 @ 0' (H250711-01)

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*	1.83	0.500	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	19.9	0.500	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	22.7	0.500	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	61.9	1.50	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	106	3.00	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	143	% 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	33600	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2160	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	9040	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	1650	100	02/07/2025	ND					
Surrogate: 1-Chlorooctane	231	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	195	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 01 @ 2' (H250711-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/07/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/07/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/07/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7400	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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\*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager



	CHAN 3101	EX RESOURCE CE DIXON BOYD DRIVE 5BAD NM, 88220		
	Fax Te	o: NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 01 @ 4' (H250711-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.056	0.050	02/07/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/07/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/07/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	19.2	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RES CHANCE DI 3101 BOYD CARLSBAD I Fax To:	XON DRIVE		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 02 @ 0' (H250711-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.44	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	47.4	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	54.8	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	153	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	261	30.0	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6690	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	27700	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	4880	100	02/07/2025	ND					
Surrogate: 1-Chlorooctane	273	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	615	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 02 @ 2' (H250711-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


	CHANCE 3101 BO	RESOURCE DIXON YD DRIVE ND NM, 88220		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 02 @ 4' (H250711-06)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.075	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	137	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	20.2	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	0						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOURCI CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88 Fax To: NA		
Received:	02/06/2025	Sampling Date:	02/04/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	25A - 00478	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG		

#### Sample ID: BH25 - 03 @ 0' (H250711-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.6	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	94.3	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	81.2	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	220	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	413	30.0	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5620	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	18500	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	3650	100	02/07/2025	ND					
Surrogate: 1-Chlorooctane	512	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	396	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESOUR CHANCE DIXON 3101 BOYD DRIV CARLSBAD NM, 8 Fax To: NA	/E	
Received:	02/06/2025	Sampling Date:	02/04/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	25A - 00478	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG		

#### Sample ID: BH25 - 03 @ 2' (H250711-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.86	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	55.7	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	52.9	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	157	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	271	30.0	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	4480	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4710	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	13900	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	1390	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	462	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	295	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX RESC CHANCE DIXC 3101 BOYD D CARLSBAD NI Fax To:	ON DRIVE		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 03 @ 4' (H250711-09)

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	02/09/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.259	0.050	02/09/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	0.492	0.050	02/09/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	1.70	0.150	02/09/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	2.45	0.300	02/09/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	138	% 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	6130	16.0	02/07/2025	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*	85.9	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	1090	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	185	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	CHANCE 3101 BO	RESOURCE DIXON YD DRIVE ND NM, 88220		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 04 @ 0' (H250711-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 04 @ 2' (H250711-11)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	CHANCE 3101 BO	RESOURCE DIXON YD DRIVE ND NM, 88220		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 05 @ 0' (H250711-12)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 05 @ 2' (H250711-13)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 06 @ 0' (H250711-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 06 @ 2' (H250711-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	CHANCE 3101 BO	RESOURCE DIXON YD DRIVE ND NM, 88220		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 07 @ 0' (H250711-16)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	223	112	200	0.676	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	219	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	VERTEX R CHANCE D 3101 BOYI CARLSBAD	DIXON		
	Fax To:	NA		
Received:	02/06/2025		Sampling Date:	02/04/2025
Reported:	02/12/2025		Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3		Sampling Condition:	Cool & Intact
Project Number:	25A - 00478		Sample Received By:	Shalyn Rodriguez
Project Location:	EOG			

#### Sample ID: BH25 - 07 @ 2' (H250711-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	2.00	100	2.00	6.32	
Toluene*	<0.050	0.050	02/08/2025	ND	2.09	104	2.00	6.67	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.99	99.6	2.00	6.15	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.87	97.8	6.00	6.37	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	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	02/07/2025	ND	223	112	200	0.676	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	219	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
Company Name: Vester Chill to EDG Resources in)	BILL TO	ANALYSIS REQUEST
Project Manager: Chance Uivon	P.O. #:	
Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220	Company: EOG Resources	1
City: Carlsbad State: NM Zip: 88220	Attn: Chase Settle	
Phone #: 575-988-1412 Fax #:	Address:	
Phone #: 575 - 988 - 1472 Fax #: Project #: 25A - 00478 Project Owner:	City:	
Project Name: Dolores All Federal #3	State: Zip:	
Project Location:	Phone #:	
Samples News Mrs Accord	Fax #:	22
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING	801 de
Lab I.D. Sample I.D. H250711 1/ BH25-04 D 2' 1/ BH25-05 D 0' 13 BH25-05 D 2' 14 BH25-06 D 2' 15 BH25-06 D 2' 15 BH25-06 D 2' 16 BH25-07 D 2' 17 BH25-07 D 2'	OTHER ACID/BASE: ACID/ACID/ACID/ACID/ACID/ACID/ACID/ACID/	TPH TPH Chlor
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arbing whether based in contract or nalyses. All claims including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and re ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, lost	r tort, shall be limited to the smount paid by the client for th received by Cardinal within 30 days after completion of the ss of use, or loss of profits incurred by client, its subsidiarie based upon any of the above stated reasons or otherwise Verbal Ress All Results in	e applicable es, e.
Delivered By: (Circle One)       Observed Temp. °C       Sample Condition         Sampler - UPS - Bus - Other:       Corrected Temp. °C       Col         FORM-000 R 3.3 00/03/24       No       No	(Initials)	Time:       Standard       Bacteria (only) Sample Condition         Rush       Cool       Intact       Observed Temp. °C         ID #140       O.32       Yes       Yes         Intact       No       No       Corrected Temp. °C

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



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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220		
	Fax To: NA		
Received:	02/13/2025	Sampling Date:	02/05/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	25A - 00478	Sample Received By:	Tamara Oldaker
Project Location:	EOG - CARLSBAD, NM		

#### 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*	<b>1.90</b> 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		Analyzed 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		Analyzed 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	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: VERTEX/EOG					B	ANALYSIS REQUEST									
Project Manage	" Chance	Dixon			P.O. #:		_								
Address: On Fill						Company: EOG									
City:		State:	Zip:		Attn: Ch		ttle,								
Phone #: J		Fax #:			Address:			1							
Project #: 25	4-00478	Project Owne	er:		City:			1							
Project Name: DOIONES ATL Federal #3					State:	Zip:		1							
Project Location	: Carlsba	J.NM			Phone #:										
Sampler Name:	BILLY AT	noid			Fax #:			N	5						
FOR LAB USE ONLY				MATRIX	PRESERV	. SAM	PLING	802	80						
Lab I.D. H050887	Samp 85 25-03		<ul> <li>G)RAB OR (C)OMF</li> <li>+ CONTAINERS</li> </ul>	GROUNDWATER WASTEWATER OIL OIL	OTHER : ACID/BASE: CEV COOL	DATE	TIME	V BTEX	Har	101	-				
		-													
			$\vdash$		-			-							
ASE NOTE: Liability and	Damages, Cardinal's liability	and client's exclusive remedy for a	ny claim aris	ing whather hered is contract	or fort shall be formed	to the owner at			1						
llyses. All claims including	g those for negligence and any	other cause whatsoever shall be r consequental damages, including	deemed wai	ived unless made in writing and	received by Cardinal y	within 30 days after	r completion of the	a annlicable							
ates or successors arising linquished By:	g out of or related to the perfor	mance of services hereunder by C	ardinal, rega	ardless of whether such claim	is based upon any of th	e above stated re	asons or otherwise	8.	] Yes		Add	Phone #:		2	
CE	in	Time: 2/13	0	Jauras	Old	Kn	All Results								
elinquished By:		Date: Time:	Recei	ived By:	cherry	gie	REMARKS	:							5
elivered By: (Cir ampler - UPS - B		Observed Temp. °C Corrected Temp. °C	0.1	Sample Condition Cool Intact	(Init	ials)	Turnaround Thermometer Correction Fa		R	tandard tush		Bacteria (c Cool Inta Yes		e Condition erved Temp. ected Temp.	

Released to Imaging: 6/2/2025 2:44:55 PM



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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220		
	Fax To: NA		
Received:	02/18/2025	Sampling Date:	02/11/2025
Reported:	02/20/2025	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	25A - 00478	Sample Received By:	Tamara Oldaker
Project Location:	EOG - CARLSBAD, NM		

#### 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, SM4500Cl-B	mg/kg		Analyzed 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		Analyzed 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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

101 East Marland	, Hobbs, NM	88240
	FAV (ETE) 20	

Annany Namo:	(575) 393-2326 FAX (575) 393-2							BIL	LTO		_		_	ANA	11515	REG	UEST			
ompany Name:						Ρ.	0. #:													
	Chance Dixon					c	ompa	iny: 🌶	FOG											
Address: On Fill State: Zip:				Attn: CHASE SEETIC																
ity:	State: Fax #:	Lib.	-				ddres		~	1										
hone #:						c	ity:													
roject #: 25	A-00478 Project Owne		1 -	4.	2		tate:		Zip:											
roject Name:	Dolores ATL Fed	9	/ 7	4	5		Phone #:			1										
	Carisbad		-		_		ax #:				802	8015								
FOR LAB USE ONLY	Chance Dixon		П	-	MATRI	_		ESERV.	SAM	PLING	1X	8								
Lab I.D.	Sample I.D.	A CORAB OR (C)OMP	1 # CONTAINERS	GROUNDWATER		SLUDGE	ACID/BASE:	CEV COOL	DATE 2/11	TIME 9:00	1 BT 54	Harly	101							
							-				-	-			-	-	1			
analyses. All claims includ service. In no event shall C Relinquished B Relinquished E Relinquished E	A Time350 Date: Time:	ding with by Cardin R	out limit al, rega ecei	ved E ived E	siness inten ( <u>whether su</u> By: By: ample (	Conditio		e, or loss of ipon any of	KED BY:	reasons or othen	wise. Result: Its are en	mailed.	Please Stand	provide Em	Bac	teria (o	nly) Sam t O	ple Con bserved	dition	c
Delivered By: ( Sampler - UPS		°C	4	0	Yes	Yes No		7	itials)	Thermom	n Factor	#140 -0.6°C	Z	294		Yes I	les		d Temp. °	

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

Page 60 of 66

QUESTIONS

Action 465388

QUESTIONS				
Operator:	OGRID:			
EOG RESOURCES INC	7377			
5509 Champions Drive	Action Number:			
Midland, TX 79706	465388			
	Action Type:			
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2513446761
Incident Name	NAPP2513446761 DOLORES AIL FEDERAL #3 @ 30-015-26722
Incident Type	Produced Water Release
Incident Status	Remediation Plan 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 fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	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.

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

QUESTIONS, Page 2

Action 465388

QUESTIONS (continued)			
Operator:	OGRID:		
EOG RESOURCES INC	7377		
5509 Champions Drive	Action Number:		
Midland, TX 79706	465388		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

QUESTIONS

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
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. gas only) are to be submitted on the C-129 form.				

Initial Response				
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.				
The source of the release has been stopped	True			
The impacted area has been secured to protect human health and the environment	True			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True			
All free liquids and recoverable materials have been removed and managed appropriately	True			
If all the actions described above have not been undertaken, explain why	Not answered.			
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative or actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
I hereby agree and sign off to the above statement	Name: 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 465388

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QUESTIONS	(continued	Ð
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Operator:	UGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization

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

Between 100 and 500 (ft.)
NM OSE iWaters Database Search
No
d 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 d	emonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertic	al extents of contamination been fully delineated	Yes
Was this release entirely of	contained within a lined containment area	No
Soil Contamination Samplin	g: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	NMAC unless the site characterization report includes complete melines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date w	vill 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 sur	face area (in square feet) that will be reclaimed	3025
What is the estimated volu	ume (in cubic yards) that will be reclaimed	600
What is the estimated sur	face area (in square feet) that will be remediated	3025
What is the estimated volu	ume (in cubic yards) that will be remediated	600
These estimated dates and meas	urements are recognized to be the best guess or calculation at th	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

General Information Phone: (505) 629-6116

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

QUESTI	ONS (continued)
Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Νο
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Νο
(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 ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA(
o report and/or file certain release notifications and perform corrective actions for relea he OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface 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

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.

Action 465388

Page 63 of 66

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

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Action 465388

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QUESTIONS (continued)			
EOG RESOURCES INC	OGRID: 7377		
	Action Number: 465388		
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		
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

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 (continued)					
Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377 Action Number: 465388				
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Sampling Event Information					
Last sampling notification (C-141N) recorded	{Unavailable.}				
Remediation Closure Request					

Remediation	Closure	Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			
Requesting a remediation closure approval with this submission	No		

Action 465388

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General Information Phone: (505) 629-6116

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

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

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CONDITIONS

Action 465388

CONDITIONS
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Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan and variance toward depth to water estimation are approved. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, EOG must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. EOG has 90-days (September 2, 2025) to submit to OCD its appropriate or final remediation closure report.	6/2/2025