OSE POD Location Map



3/1/2024, 2:08:53 PM

Override 1

OSE District Boundary

NHD Flowlines

Artificial Path

Stream River

GIS WATERS PODs Water Right Regulations

Active Artesian Planning Area
Plugged New Mexico State Trust Lands

Both Estates

1:18,056 0 0.17 0.35 0.7 mi 0 0.28 0.55 1.1 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

Υ X

C 04498 POD1 NA

3 25 25S 30E

609394 3552168

Driller License: 1249 Driller Company: ATKINS ENGINEERING ASSOC. INC.

Driller Name: JAKCIE D ATKINS

Drill Start Date: 02/24/2021

Drill Finish Date: 02/24/2021 Plug Date:

03/02/2021

Log File Date: 03/11/2021

Casing Size:

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Pipe Discharge Size:

109 feet

Depth Water:

Estimated Yield: 0 GPM



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

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		0	QQ							Donth	Donth	Water
POD Number	Code basin (County				Tws	Rng	Х	Υ	Distance	-	-	Column
C 04498 POD1	CUB	ED	2	1 3	25	25S	30E	609394	3552168 🌍	446	109		
C 04624 POD1	CUB	ED	4	4 1	30	25S	31E	611501	3552305 🌑	2017	120	0	120
C 03781 POD1	CUB	ED	3	3 3	13	25S	30E	609306	3554761 🌑	2170	720	325	395
C 01379	С	ED	4	4 3	10	25S	30E	606571	3556355*	4764	400		

Average Depth to Water: 162 feet

> Minimum Depth: 0 feet

325 feet Maximum Depth:

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 609504.76 Northing (Y): 3552601 Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



																<u>.</u>					
	OSE POD NO			·		WELL	TAG ID NO.			OSE FILE	NO(S).									
NO	POD1 (B)	H-01)				n/a				C-4498											
ATI	WELL OWN		٠,							PHONE (OPTIC	NAL)									
Ö	XTO Energ	gy (Ky	yle Li	ittrell)																	
ŢŢ	WELL OWN	ER MAI	LING	ADDRESS						CITY STATE				ZIP							
E	6401 Holid	lay Hi	11 Dr.							Midland	i		TX		79707						
A				, DE	GREES	MD	UTES	SECON	De	<u> </u>					,						
¥	WELL			DI	32°		6'	1.96	 [H	* ACCUIE) A CV	REQUIRED: ONE TE	TU OF	A SE	COND						
Ĭ.	LOCATIO	-	LATI	TUDE	1000				N	J		UIRED: WGS 84	1111 01 1	n oll	COND						
GENERAL AND WELL LOCATION	(FROM GP	3)	LON	GITUDE	-103°		50'	26.1	9" W	DATO	W KEQ	OIRED: WGS 84									
9	DESCRIPTION	ON REL	ATINO	WELL LOCATION TO	STREET ADD	RESS AN	D COMMON	LANDMA	RKS – PLS	S (SECTION	V, TO	VNSHJIP, RANGE) W	ERE A	VAIL.	ABLE						
÷	NW SW N	E Sec	. 25 🛚	Γ25S R30E																	
	LICENSE NO			NAME OF LICENSED		Iackie I	D. Atkins					NAME OF WELL DI				inc					
				·····																	
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	02/24/	2021		02/24/2021	иетъро	rary we	ii materia	u		109			n/a WATER LEVEL IN COMPLETED WELL (FT)								
	COMPLETE	n wei i	10.	ARTESIAN	DRY HO	ır F	T SUALLO	W (UNCO	VIETNED)			STATIC WATER LE			PLETED WI	ELL (FT)					
Z	OOMI DETE			1_J AKIESIAN	Jul Dat Ho	J.	Johne	W (011CO1	WI II (LD)			,	п	/a							
Ĕ	DRILLING F	LUID:		AIR	☐ MUD		ADDITIV	ES – SPEC	IFY:												
DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY			П намме	R [CABLE T	OOL	✓ OTHE	R – SPECIF	Y:	Holl	ow Ste	m A	Auger							
FO	DEPTH	(feet b	el)	DODE HOLE	CASING	MATE	RIAL AND	O/OR		-		CASTRIC	T								
i U	FROM	Ò	0	BORE HOLE DIAM		GRA				ASING NECTION	,	CASING INSIDE DIAM.			G WALL KNESS						
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Š	0	1/	09	±6.5	посе	Boring-	of screen)	<u> </u>	(add coup	ling diamete	er)		+			 					
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	DEPTH	(feet b	gl)	BORE HOLE	L	ST AN	NULAR SI	EAL MA	TERIAL A	AND		AMOUNT			METHO	D OF					
ΨT	FROM	Т	o o	DIAM. (inches)	GRA	VEL PA	ACK SIZE	-RANGE	BY INTE	RVAL		(cubic feet)			PLACE	MENT					
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AT														-							
ANNULAR MATERIAL													-								
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	l	L		<u> </u>								<u> </u>									
	OSE INTER			A								WELL RECORD	& LO	3 (V	ersion 06/3	0/17)					
FILI	E NO	41	<u>, , , , , , , , , , , , , , , , , , , </u>				POD NO	,		T	'RN N	10. 682	<u>.5.</u>	2_8	3,						
Loc	LOCATION 132 T255 R 30E Sec 25 WELL TAG ID NO. NA PAGE 1 OF 2																				

				· · · · · · · · · · · · · · · · · · ·						
	DEPTH (1	feet bgl)							ESTIMATED	
			THICKNESS	COLOR AND TYPE OF INCLUDE WATER-BEARING				ATER RING?	YIELD FOR WATER-	
	FROM	TO	(feet)	(attach supplemental si				S/NO)	BEARING	
				(accept adplycations as			`_	,	ZONES (gpm)	
	0	34	34	Caliche, tan, no	odor, no stain, gravel, d	гу	Y	√ N		
	34	40	6	sand/ cacliche, tan, no odor,	no stain, m-f grain, we	ll sorted, dry	Y	✓ N		
	40	56	16	sand, tan, no odor, no s	tain, m-f grain, well so	rted, dry	Y	√ N		
	56	72	16	sandstone, low consolidation, tan, r	o odor, no stain, m-f gr	rain, well sorted, o	ry Y	√ N		
	72	79	7	sand, tan, no odor, no s	tain, m-f grain, well so	rted, dry	Y	√ N		
Ţ	79	109	30	sandstone, low - medium consolidat	ion, tan, no odor, m-f g	rained, well sorte	l, m Y	√ N		
4 HYDROGEOLOGIC 1.0G OF WELL							Y	N		
OF							Y	N		
905							Y	N		
10.4							Y	N		
007							Y	N		
) E							Y	N		
RO	·						Y	N		
							Y	N		
4							Y	N		
							Y	N		
							Y	N		
							Y	N		
							Y	N		
							Y	N		
							Y	N		
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		7	OTAL EST	MATED		
	PUM	р Па	IR LIFT	BAILER OTHER - SPEC	TEV.		WELL YIEL	ELL YIELD (gpm): 0.0		
				JOHEK SIE						
,	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DATA COLLEC ME. AND A TABLE SHOWING DI	TED DURING WELL	TESTING, INCL	JDING DIS	CHARGE	METHOD,	
/ISION		SIAK	I IIWE, END II	WE, AND A TABLE SHOWING DI	SCHARGE AND DRA	WDOWNOVER	THE TEST	NOTERIC	<i></i>	
RVI	MISCELLA	NEOUS INF	ORMATION: To	mporary well materials removed	and the soil boring b	ackfilled using	drill cutting	gs from to	tal depth to ten	
CPE				et below ground surface, then hyogs adapted from WSP on-site ge		s from ten feet	elow grou	nd surface	to surface.	
IC S				60 acapted from W.D. on Site Sc	orografi.	USE	DII MAR	1.1.2021	PM4:76	
TEST; RIG SUPERV										
TES	PRINT NAM	Æ(S) OF DI	RILL RIG SUPE	VISOR(S) THAT PROVIDED ONS	ITE SUPERVISION C	F WELL CONST	RUCTION	OTHER T	IAN LICENSEE:	
ĸ	Shane Eldri	dge								
떹	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER									
CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE EN AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins 03/11/2021										
NA.	S Jack Atkins 03/11/2021									
	Jack K	ryeina		Jackie D. Atk	ins		03/	11/2021		
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE										
	E NO.	NAL USE . 4499	บ	POD NO.	1		RECORD 8	2 LOG (Ve	rsion 06/30/2017)	
_	TATION	1777	0 Tac	PODNO.		IMMINU.	ALA	<u>_</u> 0	PAGE 2 OF 2	

John R. D Antonio, Jr., P.E. State Engineer



koswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

682528

File Nbr:

C 04498

Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY WSP USA 3300 NORTH A STREET BLDG 1 #222 MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Andrew Dennis (575) 622 - 6521

drywell



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	Engineer Well Number: C-4498- POD1	 			
	owner: XTO ENERGY (Kyle Littrell)			Phone No.:	432.682.8873
Maili	ing address: 6401 Holiday Hill Dr.				+
City:	Midland	_ State: _	7	exas	Zip code:
<u>II. W</u>	WELL PLUGGING INFORMATION:	laa	talo D. Addino (A41 -	arina Assasiatas Inc.)
1)	Name of well drilling company that plugged	d well: Jac	KIE D. Atkins (Atkins Engine	ering Associates Inc.)
2)	New Mexico Well Driller License No.: 12	49	<u>.</u>	F	expiration Date: 04/30/21
3)	Well plugging activities were supervised by Shane Eldridge	the followi	ng well driller	(s)/rig supervi	sor(s):
4)	Date well plugging began: 03/02/2021		Date well pl	ugging conclu	ded: 03/02/2021
5)	GPS Well Location: Latitude: Longitude:		eg, 6 eg, 50	,	.96 sec 5.19 sec, WGS 84
6)	Depth of well confirmed at initiation of plug by the following manner: weighted tape	gging as: _	109 ft be	elow ground le	evel (bgl),
7)	Static water level measured at initiation of p	olugging: _	n/a ft ba	gl	
8)	Date well plugging plan of operations was a	approved by	the State Eng	ineer: 12/01	/2020
9)	Were all plugging activities consistent with differences between the approved plugging				
	· · · · · · · · · · · · · · · · · · ·				
				·**	SE DII MAR 11 2021 •×4:25
				لية	DE DU WALLTY KANT ALEV NO

Version: September 8, 2009 Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
- -	0-10' Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
<u>-</u>	10'-109' Drill Cuttings	Approx. 171 gallons	171 gallons	Boring	
-					
- -					
÷					
-					
- -				OSE DIJ N	1AR 11 2021 pm4/27
_]	MULTIPLY I cubic feet x 7.4 cubic yards x 201.9	BY AND OBTAIN 1805 = gallons 197 = gallons 197 = gallons 197 1		

III. SIGNATURE:

I, Jackie D. Atkins	, say that I am	familiar with	h the rules of the C	office of the State
Engineer pertaining to the plugging of wells and that e	each and all of the	e statements i	n this Plugging Reco	rd and attachments
are true to the best of my knowledge and belief.				
Jack At	kins			03/11/2021

Signature of Well Driller

Version: September 8, 2009 Page 2 of 2

Date

STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

John R. D'Antonio, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, NM 88201 Phone: (575) 622-6521

Fax: (575) 623-8559

April 12, 2021

XTO Energy 6401 Holiday Hill Dr. Midland, TX 79707

RE: Well Plugging Record for OSE File No. C-4498 POD1

Greetings:

Please find enclosed Well Plugging Record, received and filed in our office on 03/11/21

Thank you,

Andrew Dennis

Engineering Technician

2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign

Final Audit Report

2021-03-11

Created:

2021-03-11

By:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAAq2m7g1wGV8cRoBzMugpPTk25-4ojFW8H

"2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-03-11 7:17:39 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-03-11 7:18:18 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-03-11 7:29:33 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2021-03-11 7:31:05 PM GMT Time Source: server- IP address: 74.50.153.115
- Agreement completed.
 2021-03-11 7:31:05 PM GMT

105E DIT MAR 11 2021 PM4:27





PLU 25 Brushy Draw West Intermittent Stream 331ft



June 12, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

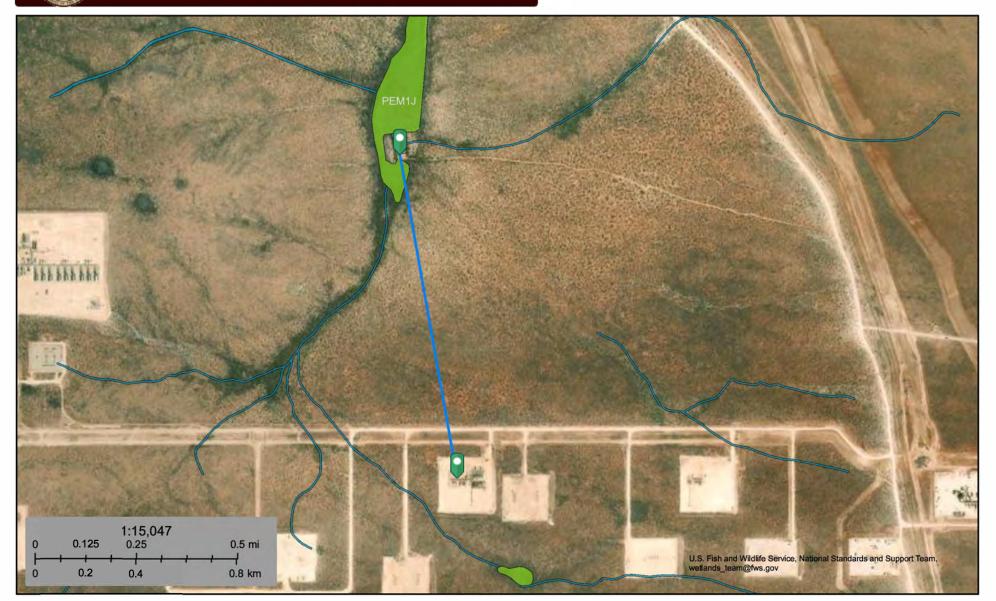
Lake

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.

PLU 25 Brushy Draw West Pond 3,612 feet



June 12, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

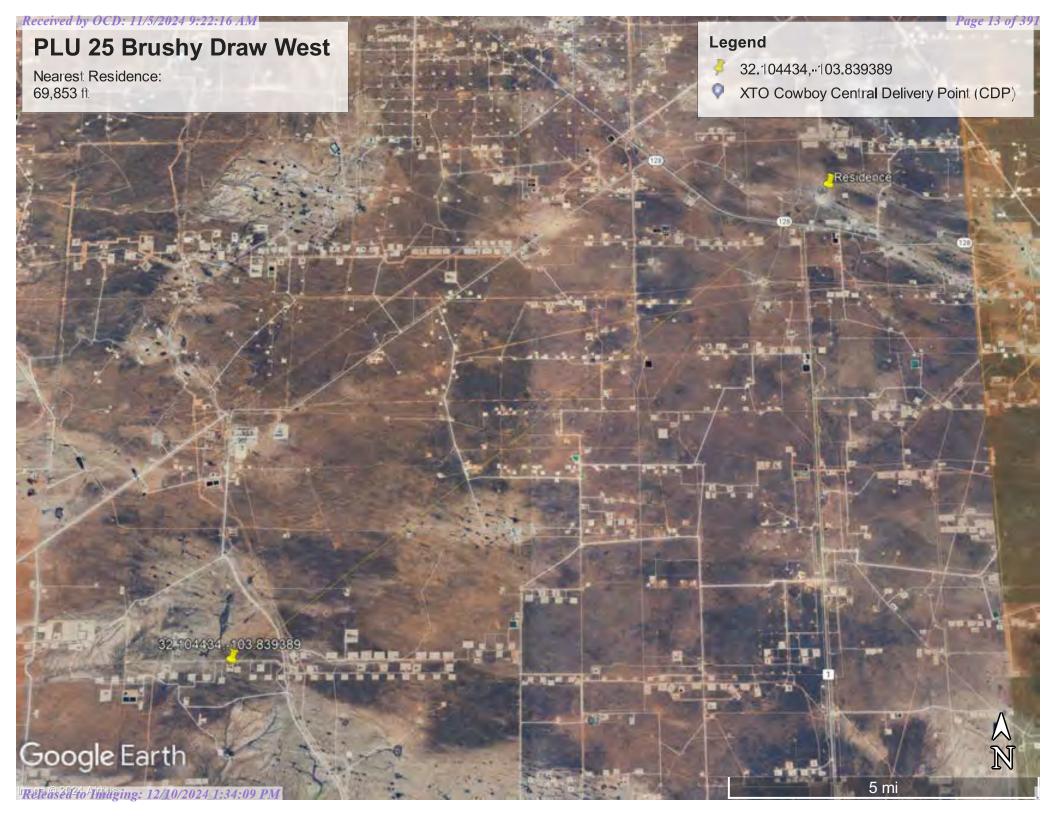
Freshwater Pond

Lake

Other



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Received by OCD: 11/5/2024 9:22:16 AM Page 14 of 391



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

	(•	acic it per annum)				C=tile lile is closed)	(qua	ters are	z Silia	ilest to lary	est) (NADOS	O TWI III IIICICIS)	
	Sub				Well			qqq					
WR File Nbr	basin Use	e Diversion Owner	County	POD Number	Tag	Code Grant	Source	6416 4	Sec	Tws Rng	J X	Υ	Distance
<u>C 04498</u>	CUB MO	N 0 XTO ENERGY INC	ED	C 04498 POD1	NA			2 1 3	25	25S 30E	609394	3552168 🎒	446
<u>LWD 01188</u>	CUB PLS	S 89.2 BUCK & LARUE JACKSON TRUST	ED	LWD 01188 POD1				1 1 3	24	25S 30E	609238	3553754*	1183
<u>C 04624</u>	CUB MO	N 0 ENSOLUM LLC	ED	C 04624 POD1	NA			4 4 1	30	25S 31E	611500	3552305	2017
<u>C 03781</u>	CUB EXI	P 0 ATKINS ENGR ASSOC INC	ED	C 03781 POD1			Artesian	3 3 3	13	25S 30E	609305	3554761 🌑	2170
<u>LWD 01210</u>	CUB PLS	S 17 BUCK & LARUE JACKSON TRUST	ED	LWD 01210 POD1				3 2 3	36	25S 30E	609665	3550314*	2292
<u>C 04730</u>	CUB MO	N 0 ENSOLUM	ED	C 04730 POD1	NA			3 3 1	27	25S 30E	606032	3552256	3489
<u>C 02441</u>	C STI	K 0 BYRON W PASCHAL	ED	<u>C 02441</u>					21	25S 30E	605077	3553783*	4582
<u>C 01379</u>	C STI	K 3 BUCK JACKSON	ED	<u>C 01379</u>				4 4 3	10	25S 30E	606571	3556355*	4764
<u>C 01831</u>	C PR	O 0 OXY PETROLEUM INC	ED	<u>C 01831</u>				2 1	17	25S 31E	612972	3556126*	4944

Record Count: 9

UTMNAD83 Radius Search (in meters):

(acre ft per annum)

Easting (X): 609504.76 **Northing (Y):** 3552601 **Radius:** 5000

Sorted by: Distance

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

LWD 01188 POD1

1 1 3 24 25S 30E

609238 3553754*

9

Driller License:

Driller Company:

Driller Name:

Drill Start Date: Plug Date:
Log File Date: PCW Rev Date: Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/12/24 4:54 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: LWD 01188 Subbasin: CUB Cross Reference: LWD-C-7

Primary Purpose: PLS NON 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 34.7 Subfile: - Header: -

Total Diversion: 89.2 Cause/Case: -

Owner: BUCK & LARUE JACKSON TRUST

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

Current Points of Diversion

Q (NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64 Q16 Q4 Sec Tws Rng
 X
 Y
 Other Location Desc

 LWD 01188 POD1
 1
 1
 1
 3
 24
 25S
 30E
 609238
 3553754*

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

 Priority
 Status
 Acres
 Diversion
 Pod Number

 12/31/1906
 DCL
 34.7
 89.2
 <u>LWD 01188 POD1</u>

Place of Use

Q Q

 256
 64 Q16 Q4Sec Tws Rng
 Acres
 Diversion
 CU
 Use
 Priority
 Status Other Location Desc

 1
 1
 3
 24
 25S
 30E
 34.7
 89.2
 PLS
 12/31/1906
 DCL

Source

Acres Diversion CU Use Priority Source Description

34.7 89.2 PLS 12/31/1906 SW

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/12/24 4:54 PM WATER RIGHT SUMMARY

U.S. Fish and Wildlife Service **National Wetlands Inventory**

PLU 25 Brushy Draw West Wetland 969 ft



March 1, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

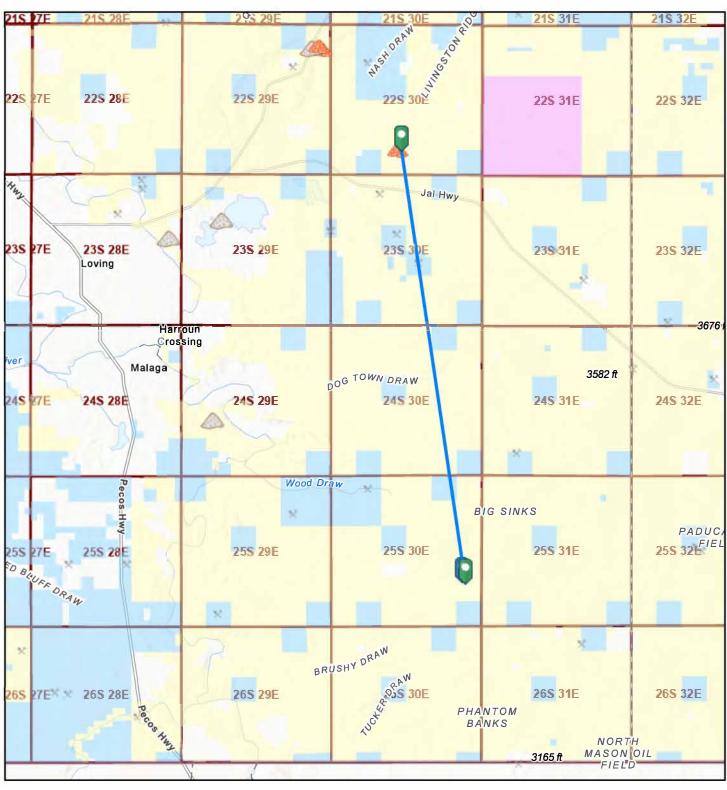
Lake

Other

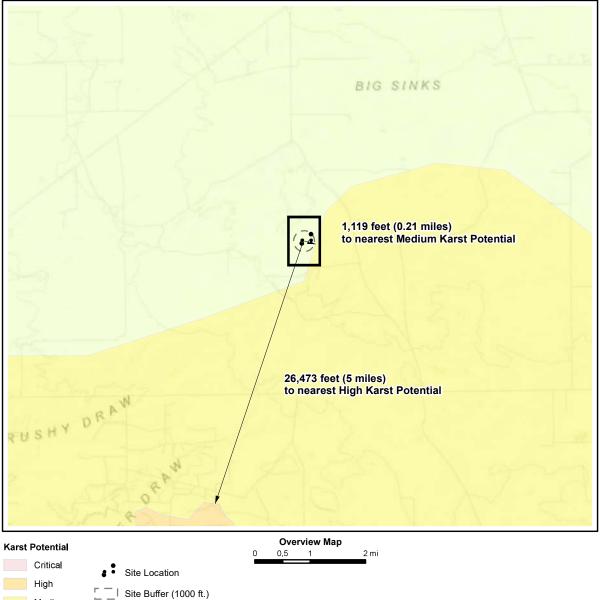
Riverine

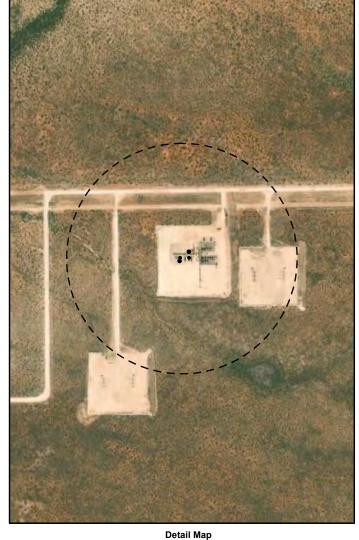
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

PLU 25 Brushy Draw West Mine 92,505ft









0 150 300

Low

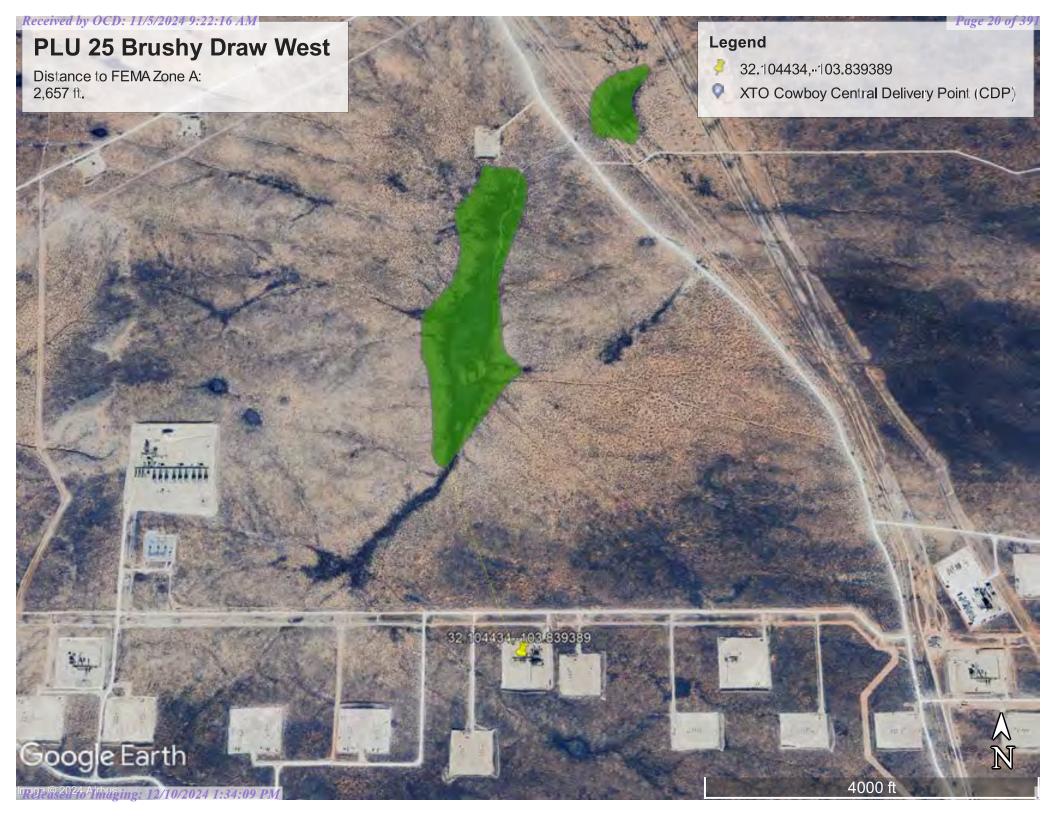
Medium

Map Center: -103.840731° 32.097917° NAD 1983 UTM Zone 13N Date: Mar 05/24

Karst Potential Map PLU 25 Brushy Draw West 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.



National Flood Hazard Layer FIRMette ₹03°50'41"W 32°6'31"N AREA OF MINIMAL FLOOD HAZARD Eddy County 350120

250

500

1,000

1.500



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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, A SPECIAL FLOOD Regulatory Floodway HAZARD AREAS

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with avera depth less than one foot or with drain e areas of less than one square mile zol

OTHER AREAS OF

Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D

- - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLI Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect

Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline

OTHER Profile Baseline **FEATURES** Hydrographic Feature

Digital Data Available

No Digital Data Available

an authoritative property location.

MAP PANELS Unmapped

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

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 3/1/2024 at 5:20 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.



2.000



NRCS

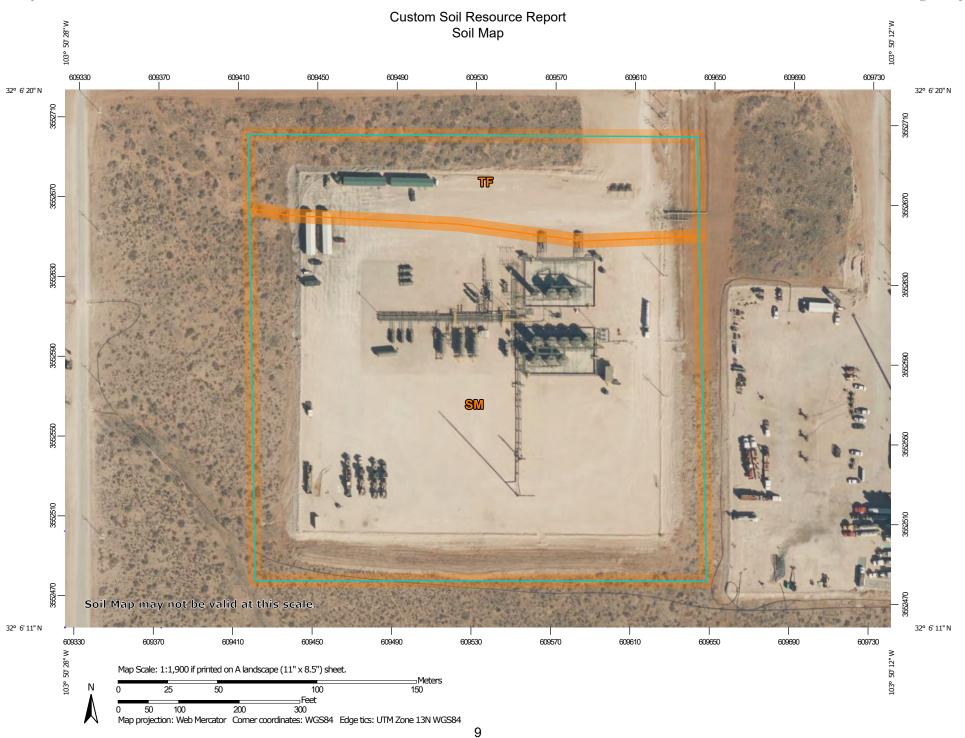
Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Soil Map

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



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravelly Spot

Landfill

Gravel Pit

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area Stony Spot

å

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads Local Roads

00

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
SM	Simona-Bippus complex, 0 to 5 percent slopes	10.0	79.4%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	2.6	20.6%
Totals for Area of Interest		12.6	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

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

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

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very 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: Occasional Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Bippus

Percent of map unit: 7 percent

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w61 Elevation: 3,000 to 4,100 feet

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

Frost-free period: 200 to 217 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 98 percent Minor components: 2 percent

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

Description of Tonuco

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loamy fine sand H2 - 5 to 15 inches: loamy fine sand H3 - 15 to 19 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 6 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 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: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Tonuco

Percent of map unit: 1 percent Ecological site: R070BD004NM - Sandy Hydric soil rating: No



Ecological site R070BD002NM Shallow Sandy

Accessed: 03/01/2024

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy	Ì
	Sandy sites often occur in association or in a complex with Shallow Sandy Sites.	

Similar sites

R070BD004NM	Sandy
	Sandy ecological sites are similar to Shallow Sandy sites in species composition and Transition pathways.

Table 1. Dominant plant species

Tree	Not specified				
Shrub	Not specified				
Herbaceous	Not specified				

Physiographic features

This site occures on plains, alluvial fans, uplands, or fan piedmonts. The parent material consists of mixed loamy alluvium or eolian material derived from igneous and sedimentory bedrock. The petrocalcic layer is at a depth of 10 to 25 inches and undulating.

Slopes are nearly level to undulating, usually less than 9 percent. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain(2) Fan piedmont(3) Alluvial fan
Elevation	2,842-4,500 ft
Slope	1–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common.

Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

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

The average frost-free season is from 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of the site. The vegetation of this site can take advantage of the moisture and the time it falls. Because of the soil profile, little moisture can be stored in the soil for any length of time. Moisture is readily available to the plants from the time it falls. Strong winds from the southwest blow from January through June which rapidly dries out the soil profile during a critical period for plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	221 days		
Freeze-free period (average)	240 days		
Precipitation total (average)	13 in		

Influencing water features

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

Soil features

Soils are very shallow to shallow, less than 20 inches in depth. Surface and subsurface textures are gravelly loamy sand, gravelly fine sandy loam or fine sandy loam.

An indurated calache layer occurs at depths of 6 to 25 inches and is at an average of 15 inches from the surface. Underlying material textures are very gravelly fine sandy loam, very gravelly sandy loam, gravelly fine sandy loam. Gravels are calcium carbonate concretions, calcium carbonate content ranges from 30 to 65 percent.

The indurated caliche layer typically holds water up in the profile for short periods within the root zone of plants. These soils will blow if left unprotected by vegetation.

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

Characteristic soils are:

Simona

Jerag

Table 4. Representative soil features

Surface texture	(1) Fine sandy loam(2) Loamy fine sand(3) Gravelly fine sandy loam				
Family particle size	(1) Loamy				
Drainage class	Well drained to moderately well drained				
Permeability class	Moderately slow to moderate				

Soil depth	7–24 in
Surface fragment cover <=3"	5–25%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	1–2 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0
Soil reaction (1:1 water) (0-40in)	7.4–8
Subsurface fragment volume <=3" (Depth not specified)	5–25%
Subsurface fragment volume >3" (Depth not specified)	0%

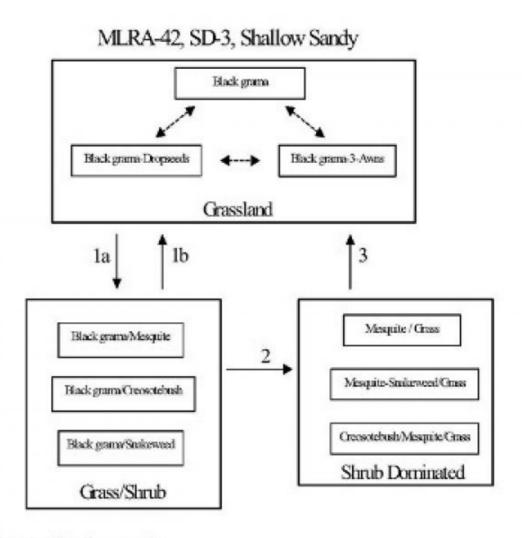
Ecological dynamics

Overview

The Shallow Sandy site occurs on upland plains, and tops of low ridges and mesas, associated with Sandy, Loamy Sand, and Shallow sites. Coarse to moderately coarse soil surface textures, shallow depth (<20 inches) to an indurated caliche layer (petrocalcic horizon), and an overwhelming dominance by black grama help to distinguish this site. The historic plant community of the Shallow Sandy site is a black grama dominated grassland sparsely dotted with shrubs. Shrubs, especially mesquite and creosotebush can increase or colonize due to the dispersal of shrub seeds by livestock or wildlife. This increase in mesquite and colonization of creosotebush may be enhanced by proximity to areas with existing high shrub densities. Fire suppression, and the loss of grass cover due to overgrazing or drought may facilitate the increase and encroachment of shrubs. Persistent loss of grass cover, competition for resources by shrubs, and periods of climate with increased winter precipitation and dry summers, may initiate the transition to a shrub-dominated state.

State and transition model

Plant Communities and Transitional Pathways (diagram)



- Seed dispersal, drought, overgrazing, fire suppression.
- Prescribed fire, brush control, prescribed grazing.
- Persistent loss of grass cover, resource competition, increased winter precipitation.
- Brush control, range seeding, prescribed grazing.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: This site responds well to management and is resistant to state change, due to the shallow depth to petrocalcic horizon and sandy surface textures. The sandy surface textures allow rapid water infiltration and the petrocalcic horizon helps to keep water perched and available to shallow rooted grasses. Black grama is the dominant species in the historic plant community, averaging 50 to 60 percent of the total production for this site. Bush muhly, blue grama, and dropseeds are present as sub-dominants. Typically, yucca, javalinabush, range ratany, prickly pear, and mesquite are sparsely dotted across the landscape. Leatherweed croton, cutleaf

happlopappus, wooly groundsel, and threadleaf groundsel are common forbs. Continuous heavy grazing or extended periods of drought will cause a loss of grass cover characterized by a decrease in black grama, bush muhly, blue and sideoats grama, plains bristlegrass, and Arizona cottontop. Dropseeds and or threeawns may increase and become sub-dominant to black grama. Continued loss of grass cover in conjunction with dispersal of shrub seeds and fire suppression is believed to cause the transition to a state with increased amounts of shrubs (Grass/Shrub state). Diagnosis: Black grama is the dominant grass species. Grass cover uniformly distributed. Shrubs are a minor component averaging only two to five percent canopy cover. Litter cover is high (40-50 percent of area), and litter movement is limited to smaller size class litter and short distances (<. 5m). Other grasses that could appear on this site would include: six-weeks grama, fluffgrass, false-buffalograss, hairy grama, little bluestem, bristle panicum, cane bluestem, Indian ricegrass, tridens spp., and red lovegrass. Other woody plants include: pricklypear, cholla, fourwing saltbush, catclaw mimosa, winterfat, American tarbush and mesquite. Other forbs include: globemallow, verbena, desert holly, senna, plains blackfoot, trailing fleabane, fiddleneck, deerstongue, wooly Indianwheat, and locoweed.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	474	652	830
Forb	78	107	136
Shrub/Vine	48	66	84
Total	600	825	1050

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	30-35%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	40-50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	15-25%

Figure 5. Plant community growth curve (percent production by month). NM2802, R042XC002NM-Shallow Sandy-HCPC. SD-3 Shallow Sandy - Warm season plant community.

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

State 2 Grass/Shrub

Community 2.1 Grass/Shrub

Grass/Shrub: This state is characterized by the notable presence of shrubs, especially mesquite, broom snakeweed, and/or creosotebush, however grasses remain as the dominant species. Black grama is the dominant

grass species. Threeawns and or dropseeds are sub-dominant. The susceptibility of the Shallow Sandy site to shrub encroachment may be higher when located adjacent to other sites with high densities of mesquite or creosotebush. Retrogression within this site is characterized by decreases in grass cover and increasing densities of shrubs. Diagnosis: Black grama remains as the dominant grass species. Grass cover varies in response to the amount of shrub increase, ranging from uniform to patchy. Shrubs are found at increased densities relative to the grassland state, especially mesquite, creosotebush, or broom snakeweed. Transition to Grass/Shrub (1a) Historically fire may have kept mesquite and other shrubs in check by completely killing some species and disrupting seed production cycles and suppressing the establishment of shrub seedlings in others. Fire suppression combined with seed dispersal by livestock and wildlife is believed to be the factors responsible for the establishment and increase in shrubs.1, 3 Loss of grass cover due to overgrazing, prolonged periods of drought, or their combination, reduces fire fuel loads and increases the susceptibility of the site to shrub establishment. Key indicators of approach to transition: Increase in the relative abundance of dropseeds and threeawns Presence of shrub seedlings Loss of organic matter—evidenced by an increase in physical soil crusts 8 Transition back to Grassland (1b) Brush control is necessary to initiate the transition back to the grassland state. If adequate fuel loads remain, possibly the reintroduction of fire as a management tool will assist in the transition back, however, mixed results have been observed concerning the effects of fire on black grama grasslands.6 Prescribed grazing will help ensure adequate rest following brush control and will assist in the establishment and maintenance of grass cover capable of sustaining fire.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

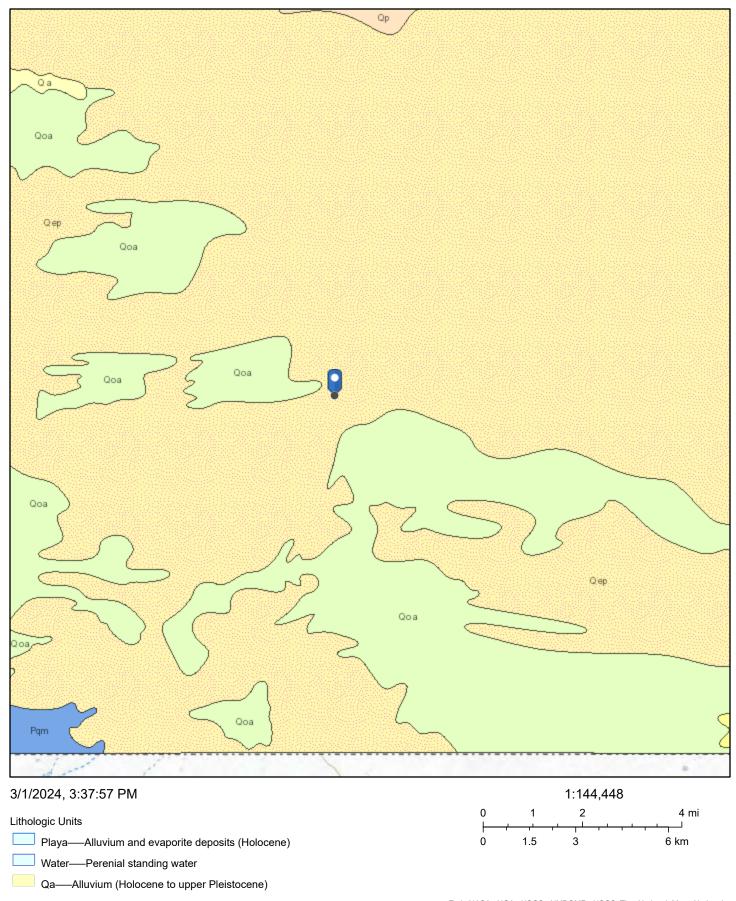
Shrub-Dominated: Across the range of soil types included in the Shallow Sandy site, mesquite is typically the dominant shrub, but it does occur as a co-dominant or sub-dominant species with creosotebush or broom snakeweed. Mesquite tends to dominate when the Shallow Sandy site occurs as part of a complex or in association with Sandy or Loamy Sand sites. Creosotebush tends to dominate on Shallow Sandy sites that occur as part of, or adjacent to Shallow Sites. Broom snakeweed increases in response to heavy grazing, but tends to cycle in and out depending on timing of rainfall. However, once the site is dominated by shrubs and snakeweed becomes well established, it tends to remain as a major component in the shrub dominated state. Diagnosis: Mesquite, creosotebush, or snakeweed cover is high, exceeding that of grasses. Grass cover is patchy with large connected bare areas present. Black grama, threeawns, or dropseeds may be the dominant grass. Evidence of accelerated wind erosion in the form of pedestalling of plants, and soil deposition around shrub bases may be common. Transition to Shrub-Dominated (2) Persistent loss of grass cover and the resulting increased competition between shrubs and remaining grasses for dwindling resources (especially soil moisture) may drive this transition.5 Additionally periods of increased winter precipitation may facilitate periodic episodes of shrub expansion and establishment. 4 Key indicators of approach to transition: Increase in size and frequency of bare patches. Loss of grass cover in shrub interspaces. Increased signs of erosion, evidenced by pedestalling of plants, and soil and litter deposition on leeward side of plants. 7 Transition back to Grassland (3) Brush control is necessary to reduce competition from shrubs and reestablish grasses. Range seeding may be necessary if insufficient grasses remain, The benefits, and costs, will vary depending upon the degree of site degradation, and adequate precipitation following seeding.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			413–495	
	black grama	BOER4	Bouteloua eriopoda	413–495	_
2	Warm Season			41–83	
	bush muhly	MUPO2	Muhlenbergia porteri	41–83	_
3	Warm Season			41–83	

PLU 25 Brushy Draw West Geology



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



VERTEX

Incident Number: nAPP2403657069,

nAPP2408553359

Release Assessment and Deferral

PLU 25 Brushy Draw West

fAPP2126355953

Unit E, Section 25, Township 25 South, Range 30 East

County: Eddy

Vertex File Number: 24E-00670

Prepared for:

XTO Energy, Inc.

Prepared by:

Vertex Resource Services Inc.

Date:

October 2024

Release Assessment and Deferral October 2024

Release Assessment and Deferral
PLU 25 Brushy Draw West
Unit E, Section 25, Township 25 South, Range 30 East
County: Eddy

Prepared for:

XTO Energy, Inc.

3104 East Greene Street Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division - District 2

508 West Texas Avenue Artesia, New Mexico 88210

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ENVIRONMENTAL TECHNICIAN, REPORTING

October 30, 2024

Date

Sally Carttar, B.A.

PROJECT MANAGER, REPORT REVIEW

October 30, 2024

Date

Release Assessment and Deferral October 2024

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Release Assessment and Deferral October 2024

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Release Assessment and Deferral October 2024

1.0 Introduction

XTO Energy, Inc. (XTO) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Deferral for two produced water releases that occurred at PLU 25 Brushy Draw West, facility ID fAPP2126355953 (hereafter referred to as "site"). The first release occurred on January 22, 2024, and was assigned the Incident ID number nAPP2403657069. A remediation plan for the site was submitted and approved by the New Mexico Oil Conservation Division (NMOCD) on August 5, 2024. The second release occurred on March 11, 2024, and was assigned the Incident ID number nAPP2408553359.

This report describes 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 have been met in all areas not directly needed for production and all applicable regulations are being followed. This document is intended to serve as a report to obtain approval from NMOCD for deferral of this release, with the understanding that remediation and restoration of the release site will be deferred until all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The nAPP2403657069 release occurred on January 22, 2024, due to corrosion in a production flow line. The incident was reported on January 23, 2024, and involved the release of approximately 40 barrels (bbl) of produced water around and under equipment on the facility pad. Approximately 35 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A).

The nAPP2408553359 release occurred on March 11, 2024, due to corrosion on a 6" flowline. This incident was reported on March 25, 2024 and involved the release of approximately 15 bbl of produced water to the west and under equipment on the facility pad. Approximately 13 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A).

3.0 Site Characteristics

The site is located approximately 16 miles southeast of Malaga, New Mexico. The legal location for the site is Unit E, Section 25, Township 25 South and Range 30 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management 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 under the equipment east of the tank battery on or in proximity to the constructed pad (Figure 1).

The *Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Qep - Eolian and Piedmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2024). 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, alluvial fans, and flood plains with

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elevations ranging between 1,800 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 and 24 inches. Predominant soil textures around the site are gravelly fine sandy loam and silty clay loam, resulting in well-drained soils with runoff classes ranging from very low to very high. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted facility pad.

4.0 Closure Criteria Determination

The depth to groundwater was determined by a monitoring well (C-04498 POD 1) within 0.5 miles to the south of the site (New Mexico Office of the State Engineer, 2024). There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 331 feet southwest of the site (United States Fish and Wildlife Service, 2024). 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. Closure Criteria documentation is included in Appendix B.

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	Closure Criteria Determination ne: PLU 25 Brushy Draw West CTB			
	rdinates: 32.104434,-103.839389	X: 609505	Y: 3552601	
ite Spe	cific Conditions	Value	Unit	
	Depth to Groundwater (nearest reference)	109	feet	
	Distance between release and nearest DTGW	1,458	feet	
1	reference	0.27	miles	
	Date of nearest DTGW reference measurement		y 24, 2021	
	Within 300 feet of any continuously flowing			
2	watercourse or any other significant watercourse	331	feet	
	Within 200 feet of any lakebed, sinkhole or playa			
3	lake (measured from the ordinary high-water mark)	3,612	feet	
	Within 300 feet from an occupied residence, school,			
4	hospital, institution or church	69,853	feet	
	i) Within 500 feet of a spring or a private, domestic			
	fresh water well used by less than five households	3,881	feet	
5	for domestic or stock watering purposes, or	3,001	reet	
J	ii) Within 1000 feet of any fresh water well or spring	3,881	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	969	feet	
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered	92,505	feet	
	mine	92,303	reet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	
	Distance between release and nearest unstable area	26,473	feet	
	Within a 100-year Floodplain	>500	year	
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	2,656	feet	
11	Soil Type	Gravelly fine sand	dy loam, indurate	
12	Ecological Classification	Shallo	w Sandy	
13	Geology	Eolian and pie	dmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	

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The depth to groundwater reference was within 0.5 miles from the release area; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the following constituent concentration limits as presented in Table 2.

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

TDS - total dissolved solids

5.0 Remedial Actions Taken

Inspection and site characterization of the release around the infrastructure were completed by Vertex between March 18 and October 26, 2024. Horizontal delineation was completed, and the total affected area was determined to be approximately 9,980 square feet. Daily Field Reports (DFRs) associated with the site visits are included in Appendix C. Vertical delineation with hand tools was not possible due to caliche refusal. Depth to groundwater at this site exceeds greater than 100 fee, therefore vertical delineation is not required for standard remediation. Characterization sample locations and approximate release areas are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

On April 18, 2024, a Remediation Closure Report Extension was approved by NMOCD for the incident, which is included in Appendix D. Remediation efforts began on September 3, 2024, and were finalized on September 18, 2024. Vertex personnel supervised the removal of impacted soils around the production equipment. During this time, delineation efforts were conducted for release nAPP2408553359 between September 5 and 6, 2024. Field screening was completed on a total of 44 sample points and consisted of analysis using a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate titrations (chlorides). Field screening results were used to identify areas requiring further remediation. These materials were removed to a depth of 0.5 feet below ground surface. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The DFRs documenting various phases of the remediation along with photographs of the remediated site prior to backfill are presented in Appendix C.

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

BTEX – benzene, toluene, ethylbenzene and xylenes

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Notifications that confirmatory samples were being collected were provided to the NMOCD and are included in Appendix D. Confirmatory composite samples, each representative of no more than 200 square feet, were collected from the base and walls of the excavation. A total of 66 base and wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories in Hobbs, NM, 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). Confirmation sampling laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E.

All confirmatory samples collected and analyzed outside the deferral area were below closure criteria for the site. Laboratory results for confirmation wall excavation samples WS24-04 exceeded NMOCD strictest criteria for chloride. Laboratory results for confirmation base sample BS24-44 exceeded NMOCD greater than 100 feet depth to ground water bgs criteria for combined gas range organics and diesel range organics. Confirmation samples WS24-04 and BS24-44 and the surrounding area will be deferred until the reclamation of the pad. Vertical delineation of the deferral area at BH24-04 and BH24-29 was completed with heavy equipment on October 26, 2024 as close as safely possible to the pipe rack and infrastructure that the deferral area represents. The laboratory results for the sample collected from BH24-29 at 4 feet bgs exceeded NMOCD thresholds for combined gas range organics and diesel range organics at depth to groundwater greater than 100 feet bgs. At time of facility decommissioning and deconstruction, the remediation depth is estimated to be 6 feet bgs to meet NMOCD requirements for closure.

6.0 Deferral Request

Vertex recommends no additional remedial action at this time to address the releases at PLU 25 Brushy Draw West until the equipment on-site is decommissioned and removed. Laboratory analyses of the final confirmatory samples collected outside the deferral area showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is greater than 100 feet below ground surface as shown in Table 2. Areas of release were remediated and backfilled with local soils. There are no anticipated or imminent risks to human, ecological, or hydrological receptors associated with the release site including the deferral area.

On behalf of XTO Energy, Inc., Vertex requests deferral of the portions of the release that are designated in proximity to equipment, specifically characterization borehole BH24-29 and confirmation sample areas BS24-44 and WS24-04. The release and deferral areas have been delineated with the understanding that remediation and restoration of this portion of the release will be deferred until such time as all oil and gas activities are terminated as per NMAC 19.15.29.12 and 19.15.29.13. The proposed deferral area consists of 3,208 square feet immediately under the pipe rack and associated infrastructure supporting production equipment, as presented on Figure 2. To meet NMOCD reclamation requirements, this area will be excavated to a depth of 4 feet bgs, requiring the removal of approximately 500 cubic yards of soil following equipment removal. The total release volume was 55 bbl and was localized to the pad in immediate proximity of production equipment and infrastructure. Site deconstruction will be required to complete remediation of the releases.

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Vertex respectfully requests that incidents nAPP2403657069 and nAPP2408553359 be deferred until the production equipment is retired and removed prior to reclamation. XTO certifies that all information in this report and the attachments is correct, and that they have complied with all applicable requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain deferral on the January 22 and March 11, 2024, releases at PLU 25 Brushy Draw West.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or SCarttar@vertexresource.com.

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7.0 References

- New Mexico Bureau of Geology and Mineral Resources. (2024). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Office of the State Engineer. (2024). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.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. (2024). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- 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 Fish and Wildlife Service. (2024). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

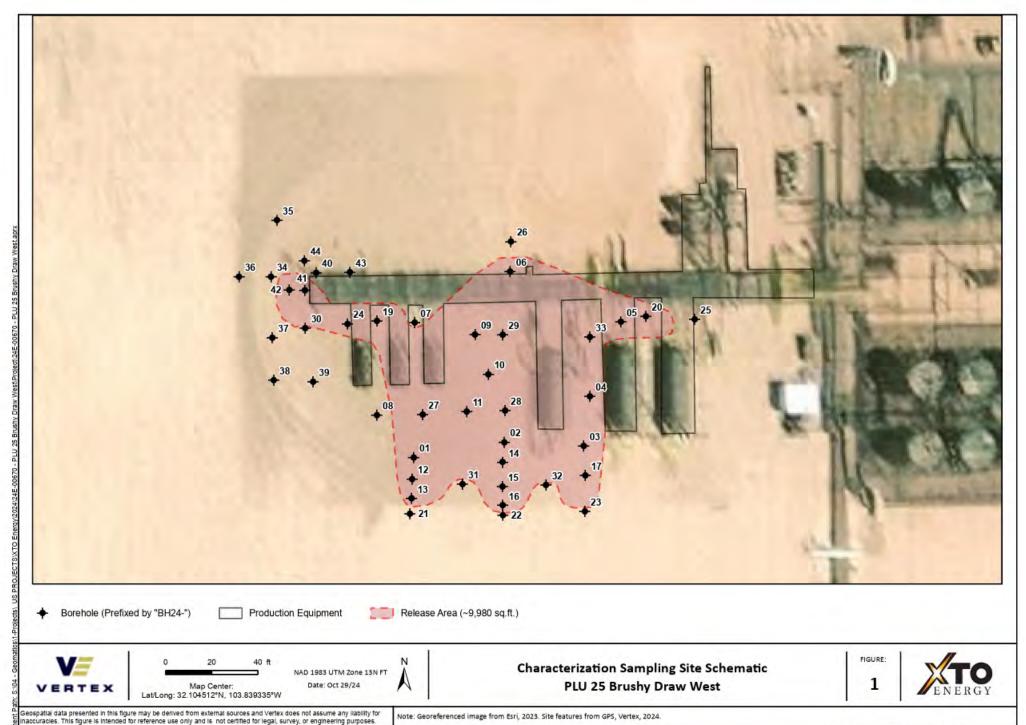
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8.0 Limitations

This report has been prepared for the sole benefit of XTO Energy, Inc. This document may not be used by any other person or entity, except for the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and XTO Energy, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damage suffered because of the use of this report are the sole responsibility of the user.

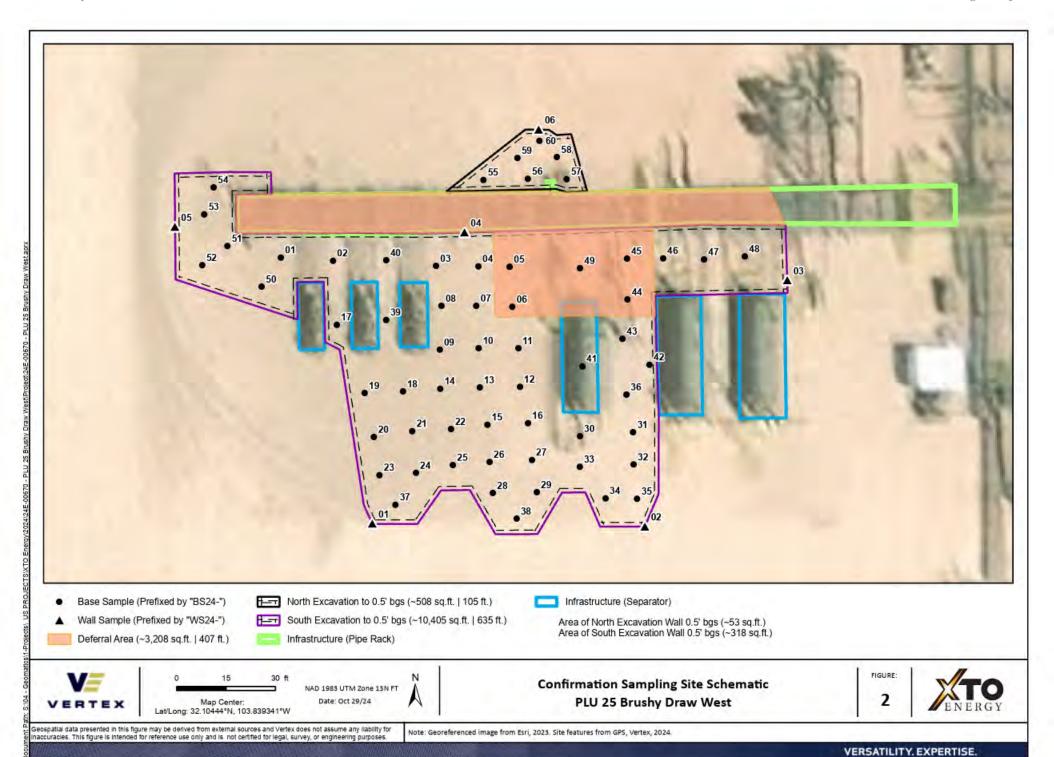
The information and conclusions in this report are based upon work undertaken by trained professional and technical staff by generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgment of Vertex based on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

FIGURES



Released to Imaging: 12/10/2024 1:34:09 PM

Note: Georeferenced image from Esri, 2023. Site features from GPS, Vertex, 2024.



TABLES

NMOCD Tracking #: nAPP2403657069, nAPP2408553359

Project #: 24E-00670

Lab Reports: 885-1706-1, 885-1922-1, 885-2016-1, 885-6878-1, H245516, H245518, H245374, and H246537

		3. Characterization Sa			nd Laborat	tory Resul				ou feet bg	S	
	Sample Des	cription	Field Sc	reening	\/-1	- 4.11 -	Petrole	eum Hydrod				
Sample ID	Depth (ft)	Sample Date	Extractable Organic Gompounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	atile (mg/kg)	র জু Gasoline Range Organics জু (GRO)	B Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	ज्ञ Total Petroleum ह्य Hydrocarbons (TPH)	Chloride Concentration (88/8m)
BH24-01	0	March 18, 2024	(ppm)	(ppm) 5,525	(mg/kg)	(IIIg/kg)	(IIIg/Kg)	(IIIg/kg)	(IIIg/kg)	(IIIg/Kg)	(IIIg/kg)	(IIIg/kg)
	0	·	-	13,500		-		-	-	_	-	
BH24-02	0	March 18, 2024	_	10,800	-	-	-	-	-	-	-	
BH24-03	0	March 18, 2024				-		-			-	
	1.5	March 19, 2024	-	10,228	-	-	-	-	-	-	-	-
BH24-04	3.5	March 19, 2024 October 26, 2024	16	5,962 650	- ND	- ND	- ND	- ND	- ND	- ND	- ND	32
	5.5	October 26, 2024	15	438	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	64
BH24-05	0	·	-	10,105	ND	ND ND	ND	ND	ND ND	ND	ND	11.000
ВП24-03	0	June 24, 2024 March 19, 2024		8,005	- ND	ND	IND	IND	- IND	ND	IND	11,000
BH24-06	2	March 19, 2024	-	2,237	-	-	-	-	-	-	-	-
	0	June 24, 2024										
BH24-07		·		505 165	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	370 95
	1.5 0	June 24, 2024			- ND	IND -	- IND	IND -	IND -	ND -	ND	- 95
BH24-08	2	March 18, 2024	81 0	450 223	- ND	- ND	- ND	- ND	- ND	- ND	- ND	120
BH24 00	0	March 22, 2024	-	10,353	ND	ND	ND	ND	ND	ND	ND	10,000
BH24-09	0	June 24, 2024										
	1	June 24, 2024	-	15,658	ND	ND	ND	23	ND	23	23	17,000
BH24-10	2	September 6, 2024	36	14,897	ND	ND	ND	ND	ND	ND	ND	18,400
BH24-10	3	September 6, 2024 September 6, 2024	32	13,266	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	10,300
	4	September 6, 2024	31 32	6,281 4,910	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	4,160 3,440
	0	June 24, 2024	-		ND	ND	ND	ND	ND	ND	ND	
BH24-11	1.5	·		7,148 638	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	6,700 280
DU24 12	0	June 24, 2024		799	-	-	-	-	-	-	- IND	-
BH24-12	0	March 19, 2024 March 20, 2024		635				_				
BH24-13	1.5	,	-	982	-	-		_	-	-	-	-
BH24-14	0	March 20, 2024 March 20, 2024	_	1,451	-	_	_	_	-	_	_	
BH24-15	0	March 20, 2024	_	1,502	_	_		_	_	_	_	_
BH24-16	0	March 20, 2024	_	1,501		_	_	_	_	_	_	
BH24-17	0	March 20, 2024	_	7,311	_	_	_	_	_	_	_	
BH24-17	0	March 20, 2024	_	1,336	_	-	_	-	-	_	-	_
BH24-19	0	March 20, 2024	_	4,995	-	_	_	_	-	_	-	
BH24-19	0	March 20, 2024		809	-	_	_	_	_	_	_	<u> </u>
	0	March 21, 2024		165	ND	ND	ND	ND	ND	ND	ND	270
BH24-21	2	March 22, 2024	35	225	ND	ND ND	ND	ND ND	ND ND	ND	ND ND	50
	0	March 21, 2024	0	483	ND	ND	ND	ND	ND	ND	ND	370
BH24-22	2	March 22, 2024	25	188	ND	ND	ND	ND ND	ND	ND	ND ND	31
	0	March 21, 2024	0	248	ND	ND	ND	ND	ND	ND	ND	76
BH24-23	2	March 22, 2024	36	200	ND	ND	ND	ND	ND	ND	ND ND	29
BH24-24	0	March 21, 2024	0	3,125	-	-	-	-	-	-	-	-
	0	March 21, 2024	0	250	ND	ND	ND	ND	ND	ND	ND	92
BH24-25	1	March 22, 2024	46	175	ND	ND	ND	ND	ND	ND	ND ND	120
	0	March 21, 2024	0	238	ND	ND	ND	ND	ND	ND	ND	130
BH24-26												



NMOCD Tracking #: nAPP2403657069, nAPP2408553359

Project #: 24E-00670

Lab Reports: 885-1706-1, 885-1922-1, 885-2016-1, 885-6878-1, H245516, H245518, H245374, and H246537

	Table	3. Characterization Sa			nd Laborat	ory Resul				00 feet bg	S	
	Sample Desc	cription	Field Sc	reening			Petrole	eum Hydro				
					Vola	atile			Extractable	•		Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH24-27	0	March 22, 2024	-	10,923	-	-	-	-	-	-	-	-
	2	March 22, 2024	-	2,763	-	-	-	-	-	-	-	-
BH24-28	0	March 22, 2024	-	10,773	-	-	-	-	-	-	-	-
	1.5	March 22, 2024	-	898	-	-	-	-	-	-	-	-
	0	March 22, 2024	-	12,400	-	-	-	-	-	-	-	-
	1.5	March 22, 2024	-	2,763	-	-	-	-	-	-	-	-
BH24-29	4	October 26, 2024	-	1,815	ND	3.26	150	1380	151	1530	1681	1,010
	6	October 26, 2024	-	1,558	ND	ND	ND	ND	ND	ND	ND	864
	8	October 26, 2024	33	350	ND	ND	ND	ND	ND	ND	ND	144
BH24-30	0	March 22, 2024	39	140	ND	ND	ND	ND	ND	ND	ND	120
B112-1 30	2	March 26, 2024	3	265	ND	ND	ND	ND	ND	ND	ND	ND
BH24-31	0	June 24, 2024	-	355	ND	ND	ND	ND	ND	ND	ND	180
BH24-32	0	June 24, 2024	-	278	ND	ND	ND	ND	ND	ND	ND	130
	1	June 24, 2024	-	188	ND	ND	ND	ND	ND	ND	ND	60
BH24-33	0	June 24, 2024	-	8,080	ND	ND	ND	ND	ND	ND	ND	8,300
	2	June 24, 2024	-	703	ND	ND	ND	ND	ND	ND	ND	620
DU 24 24	0	September 4, 2024	41	578	ND	ND	ND	ND	ND	ND	ND	176
BH24-34	1.5	September 4, 2024	23 34	455 325	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	128 64
	0	September 4, 2024 September 4, 2024	26	300	ND	ND	ND	ND	ND	ND	ND	96
BH24-35	1	September 4, 2024	36	375	ND	ND	ND	ND	ND	ND ND	ND	96
	0	September 4, 2024	30	365	ND	ND	ND	ND	ND	ND	ND	80
BH24-36	1	September 4, 2024	24	350	ND	ND	ND	ND	ND	ND	ND	64
	0	September 4, 2024	25	240	ND	ND	ND	ND	ND	ND	ND	64
BH24-37	1	September 4, 2024	22	388	ND	ND	ND	ND	ND	ND	ND	80
	1.5	September 4, 2024	23	340	ND	ND	ND	ND	ND	ND	ND	80
DU24 30	0	September 5, 2024	19	365	ND	ND	ND	ND	ND	ND	ND	128
BH24-38	1	September 5, 2024	40	485	ND	ND	ND	ND	ND	ND	ND	160
BH24-39	0	September 5, 2024	21	208	ND	ND	ND	ND	ND	ND	ND	48
рп24-39	1	September 5, 2024	28	248	ND	ND	ND	ND	ND	ND	ND	80
BH24-40	0	September 5, 2024	43	598	ND	ND	ND	ND	ND	ND	ND	192
DI 124-4U	1	September 5, 2024	54	1,053	ND	ND	ND	ND	ND	ND	ND	496
	0	September 5, 2024	365	7,075	ND	ND	ND	51.7	ND	51.7	51.7	5,040
BH24-41	1	September 5, 2024	55	1,213	ND	ND	ND	ND	ND	ND	ND	416
	1.5	September 5, 2024	66	1,183	ND	ND	ND	ND	ND	ND	ND	384
	0	September 5, 2024	110	9,715	ND	ND	ND	ND	ND	ND	ND	7,280
BH24-42	1	September 5, 2024	52	2,740	ND	ND	ND	ND	ND	ND	ND	1,550
	2	September 5, 2024	31 33	453 250	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	112 48
	3	September 5, 2024	43	195	ND ND	ND	ND	ND ND	ND ND	ND	ND ND	16
BH24-43	0	September 5, 2024 September 5, 2024	24	250	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	48
	0	September 5, 2024 September 5, 2024	23	325	ND	ND	ND	ND	ND	ND	ND	112
BH24-44	1	September 5, 2024	32	483	ND	ND	ND	ND ND	ND ND	ND	ND ND	144

[&]quot;ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed

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



NMOCD Tracking #: nAPP2403657069, nAPP2408553359

Project #: 24E-00670

Lab Reports: H245377, H245515, H245517, H245635 and H245697

	Tab	le 4. Confirmation Sam	ple Field S	Screen and	Laborato	ry Results	- Depth to	Groundy	vater >100) feet bgs		
	Sample Des		•	reening			_	um Hydro				
	i i				Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Gompounds (PetroFlag)	(maga) Chloride Concentration	Benzene (mg/kg)	(gy/ga) (gy/ga)	র জু Gasoline Range Organics জু (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum Hydrocarbons (TPH)	Bay Sy/Chloride Concentration
BS24-01	0.5	September 3, 2024	90	5,250	ND	ND	ND	ND	ND	ND	ND	4,160
BS24-02	0.5	September 3, 2024	96	5,193	ND	ND	ND	ND	ND	ND	ND	3,920
BS24-03	0.5	September 4, 2024	53	12,355	ND	ND	ND	ND	ND	ND	ND	7,600
BS24-04	0.5	September 4, 2024	56	13,135	ND	ND	ND	ND	ND	ND	ND	8,420
BS24-05	0.5	September 4, 2024	32	11,245	ND	ND	ND	ND	ND	ND	ND	6,500
BS24-06	0.5	September 4, 2024	51	12,380	ND	ND	ND	ND	ND	ND	ND	7,500
BS24-07	0.5	September 4, 2024	54	9,925	ND	ND	ND	ND	ND	ND	ND	6,400
BS24-08	0.5	September 5, 2024	58	16,605	ND	ND	ND	ND	ND	ND	ND	9,400
BS24-09	0.5	September 5, 2024	62	15,768	ND	ND	ND	ND	ND	ND	ND	9,460
BS24-10	0.5	September 5, 2024	57	11,365	ND	ND	ND	ND	ND	ND	ND	7,120
BS24-11	0.5	September 5, 2024	63	13,978	ND	ND	ND	ND	ND	ND	ND	9,860
BS24-12	0.5	September 5, 2024	69	11,390	ND	ND	ND	ND	ND	ND	ND	6,000
BS24-13	0.5	September 5, 2024	56	11,217	ND	ND	ND	ND	ND	ND	ND	5,200
BS24-14	0.5	September 5, 2024	70	9,427	ND	ND	ND	ND	ND	ND	ND	4,400
BS24-15	0.5	September 5, 2024	60	5,732	ND	ND	ND	ND	ND	ND	ND	3,560
BS24-16	0.5	September 5, 2024	63	3,971	ND	ND	ND	ND	ND	ND	ND	1,070
BS24-17	0.5	September 6, 2024	74	4,534	ND	ND	ND	ND	ND	ND	ND	1,230
BS24-18	0.5	September 6, 2024	35	4,751	ND	ND	ND	ND	ND	ND	ND	1,810
BS24-19	0.5	September 6, 2024	42	3,654	ND	ND	ND	ND	ND	ND	ND	672
BS24-20	0.5	September 6, 2024	51	2,672	ND	ND	ND	ND	ND	ND	ND	368
BS24-21	0.5	September 6, 2024	56	3,365	ND	ND	ND	ND	ND	ND	ND	528
BS24-22	0.5	September 6, 2024	38	5,646	ND	ND	ND	ND	ND	ND	ND	1,840
BS24-23	0.5	September 6, 2024	170	1,951	ND	ND	ND	ND	ND	ND	ND	272
BS24-24	0.5	September 6, 2024	44	3,308	ND	ND	ND	ND	ND	ND	ND	512
BS24-25	0.5	September 6, 2024	20	2,485	ND	ND	ND	ND	ND	ND	ND	224
BS24-26	0.5	September 6, 2024	65	5,141	ND	ND	ND	ND	ND	ND	ND	1,500
BS24-27	0.5	September 6, 2024	49	3,870	ND	ND	ND	ND	ND	ND	ND	896
BS24-28	0.5	September 6, 2024	18	1,475	ND	ND	ND	ND	ND	ND	ND	80
BS24-29	0.5	September 6, 2024	25	2,312	ND	ND	ND	ND	ND	ND	ND	208
BS24-30	0.5	September 6, 2024	64	5,703	ND	ND	ND	ND	ND	ND	ND	2,240
BS24-31	0.5	September 6, 2024	37	8,908	ND	ND	ND	ND	ND	ND	ND	5,280
BS24-32	0.5	September 6, 2024	39	3,192	ND	ND	ND	ND	ND	ND	ND	496
BS24-33	0.5	September 6, 2024	54	3,741	ND	ND	ND	ND	ND	ND	ND	672
BS24-34	0.5	September 6, 2024	41	2,182	ND	ND	ND	ND	ND	ND	ND	272
BS24-35	0.5	September 6, 2024	37	1,705	ND	ND	ND	ND	ND	ND	ND	176
BS24-36	0.5	September 6, 2024	38	10,178	ND	ND	ND	ND	ND	ND	ND	6,130
BS24-37	0.5	September 6, 2024	34	2,268	ND	ND	ND	ND	ND	ND	ND	176
BS24-38	0.5	September 6, 2024	30	2,239	ND	ND	ND	ND	ND	ND	ND	256
BS24-39	0.5	September 6, 2024	40	5,848	ND	ND	ND	ND	ND	ND	ND	1,600
BS24-40	0.5	September 9, 2024	47	2,993	ND	ND	ND	ND	ND	ND	ND	688
BS24-41	0.5	September 11, 2024	56	10,521	ND	ND	ND	ND	ND	ND	ND	12,200
BS24-42	0.5	September 11, 2024	45	5,962	ND	ND	ND	ND	ND	ND	ND	5,860
BS24-43	0.5	September 11, 2024	127	10,573	ND	ND	ND	133	23	133	156	13,300
BS24-44	0.5	September 12, 2024	617	13,017	ND	ND	ND	1,530	295	1,530	1,825	9,800
BS24-45	0.5	September 12, 2024	539	11,682	ND	ND	ND	ND	ND	ND	ND	10,100
BS24-46	0.5	September 13, 2024	281	6,542	ND	ND	ND	92	ND	92	92	4,500
BS24-47	0.5	September 13, 2024	34	1,125	ND	ND	ND	ND	ND	ND	ND	176
BS24-48	0.5	September 13, 2024	893	4,059	ND	ND	ND	801	182	801	983	2,520



NMOCD Tracking #: nAPP2403657069, nAPP2408553359

Project #: 24E-00670

Lab Reports: H245377, H245515, H245517, H245635 and H245697

	Tab	le 4. Confirmation Sam	ple Field S	creen and	Laborato	ry Results	- Depth to	Groundy	vater >100	feet bgs		
	Sample Des	cription	Field Sc	reening			Petrole	eum Hydro	carbons			
					Volatile Extractable							Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS24-49	0.5	September 17, 2024	59	11,153	ND	ND	ND	ND	ND	ND	ND	16,400
BS24-50	0.5	September 18, 2024	22	2,696	ND	ND	ND	ND	ND	ND	ND	1,420
BS24-51	0.5	September 18, 2024	61	6,403	ND	ND	ND	ND	ND	ND	ND	4,280
BS24-52	0.5	September 18, 2024	58	2,918	ND	ND	ND	ND	ND	ND	ND	1,200
BS24-53	0.5	September 18, 2024	82	3,417	ND	ND	ND	ND	ND	ND	ND	1,840
BS24-54	0.5	September 18, 2024	25	1,883	ND	ND	ND	ND	ND	ND	ND	592
BS24-55	0.5	September 18, 2024	124	4,505	ND	ND	ND	50.5	ND	50.5	50.5	3,920
BS24-56	0.5	September 18, 2024	617	4,780	ND	ND	ND	975	138	975	1,113	3,920
BS24-57	0.5	September 18, 2024	55	1,519	ND	ND	ND	ND	ND	ND	ND	1,120
BS24-58	0.5	September 18, 2024	64	1,502	ND	ND	ND	ND	ND	ND	ND	704
BS24-59	0.5	September 18, 2024	35	1,208	ND	ND	ND	ND	ND	ND	ND	256
BS24-60	0.5	September 18, 2024	39	1,336	ND	ND	ND	ND	ND	ND	ND	768
WS24-01	0-0.5	September 6, 2024	64	548	ND	ND	ND	ND	ND	ND	ND	272
WS24-02	0-0.5	September 6, 2024	22	275	ND	ND	ND	ND	ND	ND	ND	80
WS24-03	0-0.5	September 17, 2024	94	195	ND	ND	ND	ND	ND	ND	ND	192
WS24-04	0-0.5	September 17, 2024	91	6,943	ND	ND	ND	ND	ND	ND	ND	5,600
WS24-05	0-0.5	September 17, 2024	25	423	ND	ND	ND	ND	ND	ND	ND	272
WS24-06	0-0.5	September 18, 2024	46	470	ND	ND	ND	ND	ND	ND	ND	304

[&]quot;ND" Not Detected at the Reporting Limit

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



[&]quot;-" indicates not analyzed/assessed

APPENDIX A - NMOCD C-141 Report

Location:	PLU 25 Brushy Draw West						
Spill Date:	1/22/2024						
	Area 1						
Approximate A	Approximate Area = 5247.10 sq. ft.						
Average Saturation (or depth) of spill = 2.25							
Average Porosi	ty Factor = 0.03						
	VOLUME OF LEAK						
Total Crude Oil =							
Total Produced Water = 40.26 b							

TOTAL VOLUME OF LEAK						
Total Crude Oil =		bbls				
Total Produced Water = 40.26 bbls						
TOTAL VOLUME RECOVER	TOTAL VOLUME RECOVERED					
Total Crude Oil =		bbls				
Total Produced Water =	35.00	bbls				

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

QUESTIONS

Action 311511

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	311511
ı		Action Type:
ı		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2403657069				
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Received				

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
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 the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 40 BBL Recovered: 35 BBL Lost: 5 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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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 311511

Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTI	ONS (continued)	
Operator: XTO ENERGY, INC	OGRID: 5380	
6401 Holiday Hill Road Midland, TX 79707	Action Number: 311511	
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)	
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	afety hazard that would result in injury.	
The source of the release has been stopped		
The impacted area has been secured to protect human health and the environment	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 ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
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 a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses 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	

Title: SHE Coordinator I hereby agree and sign off to the above statement Email: garrett.green@exxonmobil.com Date: 02/05/2024

Name: Garrett Green

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

QUESTIONS, Page 3

Action 311511

QUESTIONS	(continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	311511
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

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.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

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	No	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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

CONDITIONS

Action 311511

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	311511
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	y Condition	Condition Date
scwells	None	2/6/2024

Location:	PLU 25 CTB		
Spill Date:	3/11/2024		
	Area 1		
Approximate A	rea = 853.00	sq. ft.	
Average Satura	tion (or depth) of spill = 1.50	inches	
Average Porosi	ty Factor = 0.10		
	VOLUME OF LEAK		
Total Crude Oil	=	bbls	
Total Produced	Water = 1.90	bbls	

TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =		bbls
Total Produced Water =	13.00	bbls

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

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

QUESTIONS

Action 326513

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	326513
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
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 the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Other (Specify) Produced Water Released: 15 BBL Recovered: 13 BBL Lost: 2 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)	Leak occurred due to corrosion on 6" CS line

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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 326513

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TIONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	326513
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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 Beaucage	
Initial Response	and the barrows that was self in injury
The responsible party must undertake the following actions immediately unless they could create a 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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted 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 rele the 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 eases 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 ort does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Alan Romero
I hereby agree and sign off to the above statement	Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 03/25/2024

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

QUESTIONS, Page 3

Action 326513

QUESTIONS	(continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	326513
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

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.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

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	No	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accomplicantly deviate from the remediation plan proposed, then it should consult with the division to determine the consult with the division that the division that the consult with the division that the consultant with the consultant with the consultant wi	ordance with the physical realities encountered during remediation. If the responsible party has any need to	

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CONDITIONS

Action 326513

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	326513
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By		Condition Date
scwells	None	3/26/2024

APPENDIX B – Closure Criteria Research Documentation

APPENDIX C – Daily Field Reports

Daily Site Visit Report



XTO Energy Inc. (US) 3/19/2024 Client: Inspection Date: 3/20/2024 12:08 AM Site Location Name: PLU 25 Brushy Draw West Report Run Date: Client Contact Name: Garrett Green API#:

575-200-0729 Client Contact Phone #: Unique Project ID

Project Owner: Project Reference # Project Manager:

Summary of Times Arrived at Site 3/19/2024 8:57 AM

3/19/2024 3:38 PM **Departed Site**

Field Notes

9:21 Arrived on site and filled out paperwork for Vertex and XTO.

10:02 Obtained BH24-06 @ 0'

10:25 Obtained BH24-06 @ 2'

12:33 Obtained BH24-04 @ 0' and 1.5 where it hit refusal

13:07 All four samples screened high on chlorides.

13:39 Obtained BH24-05 @ 0'.

15:12 Stepped out BH24-01 and obtained BH24-12 @ 0'

15:23 Hit refusal at 8" but will revisit later.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: East



BH24-06 facing East

Discriptiva Proty 2.

Minering Directoffs: Northeast
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Constitution 2. Annual 12.25.54 p

Viewing Direction: Northeast

BH24-04 facing northeast





BH24-12 facing north



Daily Site Visit Signature

Inspector: Angela Mohle

Signature: Add



Client:	XTO Energy Inc. (US)	Inspection Date:	9/5/2024
Site Location Name:	PLU 25 Brushy Draw West	Report Run Date:	9/6/2024 2:13 AM
Client Contact Name:	Amy Ruth	API#:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	9/5/2024 5:57 AM		
Departed Site	9/5/2024 5:54 PM		
		Field Note	es

- 6:40 Completed XTO and Vertex JSAs and safety meeting on arrival. Focused on excavation, line of fire, mobile equipment, and ignition sources. Swept work areas with magnetic locator prior to ground disturbance. On site to continue excavation to 0.5 feet bgs with hand tools and backhoe.
- **6:42** Submitted permit request for following week in the event that the project is not completed.
- 19:53 Advanced boreholes BH24-38 through BH24-44 around west end of pipe rack to complete horizontal and vertical delineation of additional release. Delineation completed pending laboratory results.
- 19:56 Standard Safety continued hand excavation under the pipes between separators and pipe rack. Back hoe continued removal material in large space between large and medium separators.
- 20:01 Collected confirmation base samples BS24-08 through BS24-16 from large open excavation between large and medium separators. Field screening results of chloride and TPH were below DTGW>100 feet bgs criteria for base samples.

Next Steps & Recommendations

- 1 Continue excavation.
- 2 Continue collecting confirmation samples.



Site Photos





Southwest of pipe rack facing north. Advanced BH24-38 south of BH24-37.

Viewing Direction: South



North of pipe rack facing south. Advanced BH24-40 immediately north of pipe rack.

Viewing Direction: North



South of pipe rack facing north. Advanced BH24-39 between separator and BH24-38.

Viewing Direction: East



West of pipe rack facing east. Advanced BH24-41 at release point of second incident at end of pipe rack.







West of pipe rack facing east. Advanced BH24-42 west of BH24-41.

Viewing Direction: South Westing To fill and the control of the c

North of pipe rack facing south. Advanced BH24-43 east of BH24-40.

Viewing Direction: South



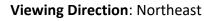
Northwest of pipe rack facing south. Advanced BH24-44 northwest of BH24-40.

Viewing Direction: North



South of separators facing north. Completed southwest corner of excavation to 0.5 feet bgs.







South of separators facing northeast. Excavation to 0.5 feet bgs.



Immediately west of large separators facing west. Collected confirmation samples BS24-08 through BS24-16 from excavation to 0.5 feet bgs.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	9/18/2024
Site Location Name:	PLU 25 Brushy Draw West	Report Run Date:	9/18/2024 11:58 PM
Client Contact Name:	Marshall Boles	API#:	
Client Contact Phone #:	(806) 367-2174		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	9/18/2024 8:05 AM		
Departed Site	9/18/2024 3:52 PM		
		Field Note	es

14:17 On site at ~8:05 am. Assessed site, filled out JSA and reviewed LSRAs for today.

On site to continue collecting confirmation samples from the western and north portion of excavation.

I measured the western portion of main excavation and the north excavation.

- **14:13** Collected 5-point composite samples BS24-50 through -54 at 0.5 ft bgs from areas no greater than 200 square feet from western portion of excavation.
- 14:14 BS24-50 through -54 field screening results were below NMOCD criteria for depth to groundwater greater than 100 feet bgs.
- **14:14** Collected 5-point composite samples BS24-55 through -60 at 0.5 ft bgs and WS24-06 at 0-0.5 ft bgs from areas no greater than 200 square feet from western portion of excavation.
- 14:14 BS24-55 through -60 field screening results were below NMOCD criteria for depth to groundwater greater than 100 feet bgs.
- 14:15 WS24-06 passed strictest field screening criteria for chlorides and TPH.
- 17:26 All samples jarred and will be sent in to laboratory for analysis.

Next Steps & Recommendations

1 Send samples to lab.





Site Photos





Site placard.

Viewing Direction: Northeast



Southwest corner of excavation facing northeast.

Viewing Direction: North



Southwest corner of excavation facing north.

Viewing Direction: East



Northwest corner of excavation facing east.





South side of excavation facing north.



Southeast corner of excavation facing northwest.



Southeast corner of excavation facing north.



North, central excavation (just south of pipe rack) facing south.







North, central excavation (just south of pipe rack) facing west.



North, central excavation (just south of pipe rack) facing east.

Viewing Direction: West



Photo of northeast corner of excavation.

Viewing Direction: East



Western edge of excavation facing east. Area where BS24-50 through -52 were collected at 0.5 ft bgs.







Western edge of excavation facing east. Area where BS24-53 and -54 were collected at 0.5 ft bgs.

Viewing Direction: South

North excavation (north of pipe rack) where BS24-55, -56, -59, and -60 were collected at 0.5 ft bgs.

Viewing Direction: Southeast



North excavation (north of pipe rack) where BS24-57 and -58 were collected at 0.5 ft bgs.

Viewing Direction: West



North excavation (north of pipe rack) where WS24-06 was collected at 0.5 ft bgs





North excavation (north of pipe rack) where WS24-06 was collected at 0.5 ft bgs



Removed material/soil placed on liner.



Daily Site Visit Signature

Inspector: Andrew Ludvik

Signature: Signature



Client:	XTO Energy Inc. (US)	Inspection Date:	10/26/2024
Site Location Name:	PLU 25 Brushy Draw West	Report Run Date:	10/26/2024 9:33 PM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ¹	Times
Arrived at Site	10/26/2024 6:48 AM		
Departed Site	10/26/2024 12:34 PM		
		Field Net	00

Field Notes

- **8:17** Completed JSA on arrival. Conducted safety meeting with Standard Safety work crew focusing on excavation, mobile equipment, and line of fire. Received variance for using combustion engines near petroleum-containing equipment. On site to increase depths of boreholes BH24-04 and BH24-29 for vertical delineation.
- **11:26** Marked borehole locations and swept with magnetic locator prior to ground disturbance. Boreholes were located as close to equipment as was considered safe.
- **11:22** Work crew excavated BH24-04 to 5 feet bgs. Samples were collected at 3.5 and 5 feet bgs. Field screening results for the sample collected at 5 feet bgs were below NMOCD strictest criteria for chloride and TPH.
- **12:10** Work crew excavated BH24-29 to 8 feet bgs. Samples were collected at 4, 6, and 8 feet bgs. Field screening results for the sample collected at 8 feet bgs were below NMOCD strictest criteria for chloride and TPH.
- **12:10** Standard Safety crew filled the excavations back in once sampling was completed.
- **12:10** Vertical delineation complete pending laboratory results.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: Southwest



South of pipe rack between large separators facing southwest. Re-advanced BH24-04 to 5 feet bgs.

Viewing Direction: Northeast



South of western large separator facing northeast. Re-advanced BH24-04 to 5 feet bgs.

Viewing Direction: Southwest



At pad entrance facing southwest.

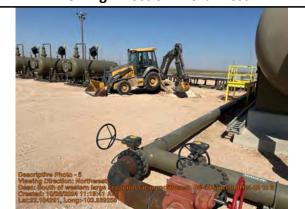
Viewing Direction: North



South of separators facing north. Filled in BH24 -04.







South of western large separator facing northwest. Re-advanced BH24-29 to 8 feet bgs.



South of pipe rack facing southwest. Readvanced BH24-29 to 8 feet bgs.

Viewing Direction: Northwest



West of western large separator facing northwest. Work crew filled excavation in.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

APPENDIX D – Notifications

XTO - Extension Request - PLU 25 Brushy Draw West

Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Thu 4/18/2024 9:22 AM

To:Romero, Alan <alan.romero1@exxonmobil.com>

Cc:Ruth, Amy <amy.ruth@exxonmobil.com>;Garcia, Amanda <amanda.garcia@exxonmobil.com>;Sally Carttar <SCarttar@vertexresource.com>;Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>;Wells, Shelly, EMNRD

<Shelly.Wells@emnrd.nm.gov>;Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

RE: Incident #NAPP2403657069

Alan.

Your request for a 90-day extension to **July 16th, 2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



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

Sent: Wednesday, April 17, 2024 3:56 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO Extension Request - PLU 25 Brushy Draw West - nAPP2403657069

From: Romero, Alan alan.romero1@exxonmobil.com>

Sent: Wednesday, April 17, 2024 3:26 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Ruth, Amy <<u>amy.ruth@exxonmobil.com</u>>; Garcia, Amanda <<u>amanda.garcia@exxonmobil.com</u>>; Sally Carttar

<<u>SCarttar@vertex.ca</u>>

Subject: [EXTERNAL] XTO Extension Request - PLU 25 Brushy Draw West - nAPP2403657069

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

Good afternoon,

XTO is requesting an extension for the current deadline of April 22, 2024, to complete remedial activities and submitting a report required in 19.15.29.12.B.(1) NMAC at the PLU 25 Brushy Draw West (nAPP2403657069). In order to complete all remedial activities and submit a report, XTO requests an extension until July 21, 2024.

Respectfully,

Alan Romero

Environmental Advisor
Permian BU – New Mexico-Delaware
ExxonMobil Upstream Oil & Gas Unconventional

Direct: (575) 988-3383

alan.romero1@exxonmobil.com

XTO ENERGY, INC. – An ExxonMobil Subsidiary

3104 E. Greene Street | Carlsbad, New Mexico 88220



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

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

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

QUESTIONS

Action 374571

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374571
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner Federal	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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

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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**

CONDITIONS

Action 374571

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374571
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/16/2024

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

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

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

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

QUESTIONS

Action 374572

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374572
F	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

District II

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

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

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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**

CONDITIONS

Action 374572

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374572
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/16/2024

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

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

QUESTIONS

Action 374573

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374573
F	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name PLU 25 Brushy Draw West	
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/23/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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

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

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

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

CONDITIONS

Action 374573

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374573
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created	,	Condition Date
cbrowi	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/16/2024

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

QUESTIONS

Action 376121

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376121
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name PLU 25 Brushy Draw West	
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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

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

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

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

CONDITIONS

Action 376121

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376121
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/21/2024

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

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

QUESTIONS

Action 376128

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376128
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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

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

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

CONDITIONS

Action 376128

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376128
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/21/2024

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

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

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

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

QUESTIONS

Action 376129

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376129
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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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**

CONDITIONS

Action 376129

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376129
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/21/2024

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

QUESTIONS

Action 376131

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376131
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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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**

CONDITIONS

Action 376131

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376131
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created B		Condition Date
cbrown	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/21/2024

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

QUESTIONS

Action 376132

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376132
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 376132

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	376132
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created B	/ Condition	Condition Date
cbrown	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/21/2024

District III

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

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

QUESTIONS

Action 379098

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379098
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/03/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 379098

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379098
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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

QUESTIONS

Action 379101

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379101
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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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**

CONDITIONS

Action 379101

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379101
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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

QUESTIONS

Action 379104

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379104
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/05/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 379104

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379104
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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

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

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

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

QUESTIONS

Action 379107

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379107
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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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**

CONDITIONS

Action 379107

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379107
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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

QUESTIONS

Action 380442

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380442
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

District III

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

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

CONDITIONS

Action 380442

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380442
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380444

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380444
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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

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

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

CONDITIONS

Action 380444

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380444
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 380445

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380445
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 380445

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380445
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380447

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	380447
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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

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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**

CONDITIONS

Action 380447

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380447
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380449

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380449
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 380449

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380449
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

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

QUESTIONS

Action 383202

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383202
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/17/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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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**

CONDITIONS

Action 383202

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383202
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

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

QUESTIONS

Action 383204

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	383204
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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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**

CONDITIONS

Action 383204

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383204
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

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

QUESTIONS

Action 383206

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383206
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	9,000
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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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**

CONDITIONS

Action 383206

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383206
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

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

QUESTIONS

Action 383207

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383207
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	9,000	
What is the estimated number of samples that will be gathered	45	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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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**

CONDITIONS

Action 383207

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383207
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

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

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

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

QUESTIONS

Action 380431

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380431
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,800	
What is the estimated number of samples that will be gathered	9	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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

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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**

CONDITIONS

Action 380431

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380431
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380434

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380434
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source		
Site Name	PLU 25 CTB	
Date Release Discovered	03/11/2024	
Surface Owner	Federal	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,800	
What is the estimated number of samples that will be gathered	9	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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

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

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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**

CONDITIONS

Action 380434

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380434
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380435

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380435
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 380435

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380435
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380436

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380436
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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

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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**

CONDITIONS

Action 380436

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380436
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

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

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

QUESTIONS

Action 380438

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380438
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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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**

CONDITIONS

Action 380438

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380438
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 380440

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380440
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.

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CONDITIONS

Action 380440

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	380440
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/4/2024

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

QUESTIONS

Action 383193

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383193
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source		
Site Name	PLU 25 CTB	
Date Release Discovered	03/11/2024	
Surface Owner	Federal	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,800	
What is the estimated number of samples that will be gathered	9	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/17/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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CONDITIONS

Action 383193

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383193
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

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

QUESTIONS

Action 383195

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383195
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,800	
What is the estimated number of samples that will be gathered	9	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar (575) 361-3561	
Please provide any information necessary for navigation to sampling site	Take Twin Wells Rd south for 12 miles from NM-128, turn right onto Buck Jackson Rd and drive for 4.3 miles. Turn right onto Buckthorn Rd and the site will be on the left in 0.86 miles.	

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CONDITIONS

Action 383195

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383195
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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

QUESTIONS

Action 383198

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383198
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2408553359
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
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CONDITIONS

Action 383198

CONDITIONS

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

QUESTIONS

Action 383199

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383199
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#) nAPP2408553359	
Incident Name	NAPP2408553359 PLU 25 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	PLU 25 CTB
Date Release Discovered	03/11/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024
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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**

CONDITIONS

Action 383199

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
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Midland, TX 79707	383199
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CONDITIONS

Created By	Condition	Condition Date
kasmith	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 10/17/2024 8:27:21 AM Revision 1

JOB DESCRIPTION

PLU 25 Brushy Draw West

JOB NUMBER

885-1706-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 10/17/2024 8:27:21 AM Revision 1

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)345-3975 Ė

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Client: Vertex Laboratory Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

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Definitions/Glossary

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis ₩

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Vertex Job ID: 885-1706-1

Project: PLU 25 Brushy Draw West

Job ID: 885-1706-1 Eurofins Albuquerque

Job Narrative 885-1706-1

REVISION

The report being provided is a revision of the original report sent on 3/29/2024. The report (revision 1) is being revised due to COC had Additional non client coc attached.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/23/2024 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH24-08 2ft (885-1706-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-76734 and analytical batch 880-76669 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-08 2ft

Lab Sample ID: 885-1706-1 Date Collected: 03/21/24 12:00

Matrix: Solid

Date Received: 03/23/24 10:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:34	
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:34	•
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:34	•
Xylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 18:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130			03/27/24 09:11	03/27/24 18:34	
1,4-Difluorobenzene (Surr)	101		70 - 130			03/27/24 09:11	03/27/24 18:34	
Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 03/27/24 12:12	Analyzed	Dil Fa
Method: SW846 8015B NM - [Diesel Range	Organics	(DRO) (GC)					
Analyte Gasoline Range Organics	_	_	. , . ,	Unit mg/Kg	<u>D</u>		Analyzed 03/27/24 18:44	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	_	RL		<u>D</u>	03/27/24 12:12		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result ND ND	_	RL 50	mg/Kg	<u>D</u>	03/27/24 12:12	03/27/24 18:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	_	RL 50	mg/Kg	<u>D</u>	03/27/24 12:12 03/27/24 12:12	03/27/24 18:44	
	Result ND ND	Qualifier	FL 50	mg/Kg	<u>D</u>	03/27/24 12:12 03/27/24 12:12	03/27/24 18:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result ND ND	Qualifier	FIL 50 50 50	mg/Kg	<u>D</u>	03/27/24 12:12 03/27/24 12:12 03/27/24 12:12	03/27/24 18:44 03/27/24 18:44 03/27/24 18:44 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result ND ND ND ND %Recovery	Qualifier	FRL 50 50 50 Limits	mg/Kg	<u>D</u>	03/27/24 12:12 03/27/24 12:12 03/27/24 12:12 Prepared 03/27/24 12:12	03/27/24 18:44 03/27/24 18:44 03/27/24 18:44 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result ND ND ND ND **Recovery 104 87	Qualifier Qualifier	FRL 50 50 50 50 Limits 70 - 130 70 - 130	mg/Kg	_ <u>D</u>	03/27/24 12:12 03/27/24 12:12 03/27/24 12:12 Prepared 03/27/24 12:12	03/27/24 18:44 03/27/24 18:44 03/27/24 18:44 Analyzed 03/27/24 18:44	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result ND ND ND %Recovery 104 87	Qualifier Qualifier	FRL 50 50 50 50 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/27/24 12:12 03/27/24 12:12 03/27/24 12:12 Prepared 03/27/24 12:12	03/27/24 18:44 03/27/24 18:44 03/27/24 18:44 Analyzed 03/27/24 18:44	Dil Fac

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-21 Oft

Lab Sample ID: 885-1706-2

Date Collected: 03/21/24 12:15 Matrix: Solid Date Received: 03/23/24 10:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:55	1
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:55	1
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 18:55	1
Xylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			03/27/24 09:11	03/27/24 18:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/27/24 09:11	03/27/24 18:55	1
Analyte Gasoline Range Organics	ND	Qualifier	RL 50	Unit mg/Kg	D	Prepared 03/27/24 12:12	Analyzed 03/27/24 19:48	Dil Fac
Method: SW846 8015B NM - I	Diesel Range	Organics	(DRO) (GC)					
(GRO)-C6-C10	ND		50	mg/Kg		03/27/24 12:12	03/27/24 19:48	1
Diesel Range Organics (Over	ND		50	mg/Kg		03/27/24 12:12	03/27/24 19:48	1
C10-C28) Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/27/24 12:12	03/27/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	<u>-</u>	Qualifier	70 - 130			03/27/24 12:12		DII Fac
1-Chloroctane			10 - 130					,
1-Chlorooctane o-Terphenyl	96 80		70 - 130			03/27/24 12:12	03/27/24 19:48	1
o-Terphenyl	80	tography -				03/27/24 12:12	03/27/24 19:48	1
	80	tography - Qualifier		Unit	D	03/27/24 12:12 Prepared	03/27/24 19:48 Analyzed	Dil Fac

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-22 0ft

Lab Sample ID: 885-1706-3

. Matrix: Solid

03/28/24 00:29

Date Collected: 03/21/24 12:30 Date Received: 03/23/24 10:40

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:15	1
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:15	1
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:15	
Kylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 19:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
our oguic						00/07/04 00:44	03/27/24 19:15	
4-Bromofluorobenzene (Surr)	73		70 - 130			03/27/24 09:11	03/21/24 19.15	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D	73 102 Diesel Range	Organics	70 - 130	Unit	D	03/27/24 09:11	03/27/24 19:15	Dil Fa
1-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	73 102	· Organics	70 - 130					
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte Gasoline Range Organics	73 102 Diesel Range	_	70 - 130 (DRO) (GC)	Unit mg/Kg	<u>D</u>			Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte	73 102 Diesel Range Result	_	70 - 130 (DRO) (GC) RL		<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12	03/27/24 19:15 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	73 102 Diesel Range Result ND	_	70 - 130 5 (DRO) (GC) RL 50	mg/Kg	<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12	03/27/24 19:15 Analyzed 03/27/24 20:10	Dil Fa
4-Bromofluorobenzene (Surr) 4,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	73 102 Diesel Range Result ND ND	Qualifier	70 - 130 5 (DRO) (GC) RL 50 50	mg/Kg	_ <u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12	03/27/24 19:15 Analyzed 03/27/24 20:10 03/27/24 20:10	Dil Fa
Method: SW846 8015B NM - DAnalyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Dil Range Organics (Over C28-C36)	73 102 Diesel Range Result ND ND ND	Qualifier	70 - 130 5 (DRO) (GC) RL 50 50	mg/Kg	<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12 03/27/24 12:12	03/27/24 19:15 Analyzed 03/27/24 20:10 03/27/24 20:10 03/27/24 20:10	

5.0

mg/Kg

370

1

3

5

9

10

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-23 0ft

Lab Sample ID: 885-1706-4

Matrix: Solid

Date Collected: 03/21/24 12:45 Date Received: 03/23/24 10:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:36	1
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:36	1
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:36	1
Xylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			03/27/24 09:11	03/27/24 19:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/27/24 09:11	03/27/24 19:36	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ND ND		50 50	mg/Kg mg/Kg			03/27/24 20:32 03/27/24 20:32	
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	ND ND		50 50	mg/Kg mg/Kg			03/27/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits	mg/rtg		Prepared Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/27/24 12:12	03/27/24 20:32	1
o-Terphenyl	84		70 - 130			03/27/24 12:12	03/27/24 20:32	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		5.0	mg/Kg			03/28/24 00:34	- 4

-

2

5

7

8

4.0

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-25 Oft

Lab Sample ID: 885-1706-5

Matrix: Solid

Date Collected: 03/21/24 13:00 Date Received: 03/23/24 10:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:57	1
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:57	•
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 19:57	•
Xylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 19:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	70		70 - 130			03/27/24 09:11	03/27/24 19:57	-
1,4-Difluorobenzene (Surr)	102		70 - 130			03/27/24 09:11	03/27/24 19:57	
Gasoline Range Organics (GRO)-C6-C10	ND		50	mg/Kg		03/27/24 12:12		
Analyte Casolina Panga Organics		Qualifier	RL	Unit ma/Ka	_ D	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/27/24 12:12	03/27/24 20:53	
Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/27/24 12:12	03/27/24 20:53	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surroyate			70 - 130			03/27/24 12:12	03/27/24 20:53	
1-Chlorooctane	92		70-700					
	92 72		70 - 130			03/27/24 12:12	03/27/24 20:53	
1-Chlorooctane	72	tography -	70 - 130			03/27/24 12:12	03/27/24 20:53	
1-Chlorooctane o-Terphenyl	72	tography - Qualifier	70 - 130	Unit	D	03/27/24 12:12 Prepared	03/27/24 20:53 Analyzed	Dil Fa

1

3

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7

8

40

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-26 Oft

130

Lab Sample ID: 885-1706-6 Date Collected: 03/21/24 13:15

Matrix: Solid

Date Received: 03/23/24 10:40

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 20:17	
Toluene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 20:17	•
Ethylbenzene	ND		0.0020	mg/Kg		03/27/24 09:11	03/27/24 20:17	•
Xylenes, Total	ND		0.0040	mg/Kg		03/27/24 09:11	03/27/24 20:17	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			70 - 130			03/27/24 09:11	03/27/24 20:17	
4-Bromofluorobenzene (Surr)	77		10 - 130			03/21/27 09.11	03/21/24 20.11	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - E	105 Diesel Range	_	70 - 130 (DRO) (GC)	Unit	n	03/27/24 09:11	03/27/24 20:17	
1,4-Difluorobenzene (Surr)	105	Ormaniaa	70 - 130					•
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte	105 Diesel Range Result	Organics Qualifier	70 - 130 (DRO) (GC) RL	Unit	<u>D</u>	03/27/24 09:11 Prepared	03/27/24 20:17 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte Gasoline Range Organics	105 Diesel Range	_	70 - 130 (DRO) (GC)	Unit mg/Kg	<u>D</u>	03/27/24 09:11	03/27/24 20:17 Analyzed	
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10	Diesel Range Result	_	70 - 130 (DRO) (GC) RL 50	mg/Kg	<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12	03/27/24 20:17 Analyzed 03/27/24 21:15	
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D	105 Diesel Range Result	_	70 - 130 (DRO) (GC) RL		<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12	03/27/24 20:17 Analyzed	·
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Description Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	_	70 - 130 (DRO) (GC) RL 50	mg/Kg	<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12	03/27/24 20:17 Analyzed 03/27/24 21:15	
Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Diesel Range Result ND ND	Qualifier	70 - 130 (DRO) (GC) RL 50	mg/Kg	<u>D</u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12	03/27/24 20:17 Analyzed 03/27/24 21:15 03/27/24 21:15	
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - Description Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result ND ND ND	Qualifier	70 - 130 (DRO) (GC) RL 50 50	mg/Kg	<u> </u>	03/27/24 09:11 Prepared 03/27/24 12:12 03/27/24 12:12 03/27/24 12:12	03/27/24 20:17 Analyzed 03/27/24 21:15 03/27/24 21:15 03/27/24 21:15 Analyzed	Dil Fac

5.0

mg/Kg

03/28/24 00:43

Job ID: 885-1706-1

Client: Vertex Project/Site: PLU 25 Brushy Draw West

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-76689/5-A

Matrix: Solid

Analysis Batch: 76683

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76689

	MR M	В					
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.0020	mg/Kg		03/27/24 09:11	03/27/24 13:40	1
Toluene	ND	0.0020	mg/Kg		03/27/24 09:11	03/27/24 13:40	1
Ethylbenzene	ND	0.0020	mg/Kg		03/27/24 09:11	03/27/24 13:40	1
Xylenes, Total	ND	0.0040	mg/Kg		03/27/24 09:11	03/27/24 13:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/27/24 09:1	1 03/27/24 13:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/27/24 09:1	1 03/27/24 13:40	1

Lab Sample ID: LCS 880-76689/1-A

Matrix: Solid

Analysis Batch: 76683

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 76689

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.107		mg/Kg	_	107	70 - 130	
Toluene	0.100	0.103		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.0921		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.182		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.0880		mg/Kg		88	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-76689/2-A

Matrix: Solid

Analysis Batch: 76683

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 76689

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.105		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.101		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.0929		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.183		mg/Kg		92	70 - 130	1	35
o-Xylene	0.100	0.0893		mg/Kg		89	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-76734/1-A

Matrix: Solid

Analysis Batch: 76669

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 76734

MB MB Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Gasoline Range Organics ND 50 mg/Kg 03/27/24 12:12 03/27/24 17:39 (GRO)-C6-C10

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

149 S1+

Lab Sample ID: MB 880-76734/1-A **Matrix: Solid**

Analysis Batch: 76669

Client Sample ID: Method Blank

03/27/24 12:12 03/27/24 17:39

Prep Type: Total/NA Prep Batch: 76734

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/27/24 12:12	03/27/24 17:39	1
Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/27/24 12:12	03/27/24 17:39	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			03/27/24 12:12	03/27/24 17:39	1

Lab Sample ID: LCS 880-76734/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 76669** Prep Batch: 76734

70 - 130

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec 1000 Gasoline Range Organics 956 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 910 70 - 130 mg/Kg 91

C10-C28)

o-Terphenyl

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 70 - 130 o-Terphenyl 106

Lab Sample ID: LCSD 880-76734/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 76669

Prep Type: Total/NA

Prep Batch: 76734

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	972		mg/Kg		97	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	942		mg/Kg		94	70 - 130	3	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 109 70 - 130 o-Terphenyl 107 70 - 130

Lab Sample ID: 885-1706-1 MS Client Sample ID: BH24-08 2ft

Matrix: Solid

Analysis Batch: 76669

Prep Type: Total/NA Prep Batch: 76734

Spike MS MS %Rec Sample Sample **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics ND 1000 795 78 70 - 130 mg/Kg (GRO)-C6-C10 1000 885 70 - 130 Diesel Range Organics (Over ND mg/Kg

C10-C28)

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 101 70 - 130 82 70 - 130 o-Terphenyl

MS MS

QC Sample Results

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-1706-1 MSD Client Sample ID: BH24-08 2ft

Matrix: Solid

Analysis Batch: 76669

Prep Type: Total/NA

Prep Batch: 76734

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		1000	810		mg/Kg		79	70 - 130	2	20
Diesel Range Organics (Over	ND		1000	909		mg/Kg		91	70 - 130	3	20

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	84	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-76738/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 76756

MB MB Result Qualifier Analyte RL Unit Dil Fac Prepared Analyzed 5.0 Chloride ND mg/Kg 03/27/24 23:31

Lab Sample ID: LCS 880-76738/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 76756

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	234		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-76738/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 76756

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	235		mg/Kg	_	94	90 - 110	0	20

Lab Sample ID: 885-1706-1 MS Client Sample ID: BH24-08 2ft

Matrix: Solid

Analysis Batch: 76756

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	120		252	362		ma/Ka		96	90 - 110	

Lab Sample ID: 885-1706-1 MSD Client Sample ID: BH24-08 2ft

Matrix: Solid

Analysis Batch: 76756

Allalysis Datcil. 10130											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	120		252	361		mg/Kg	_	96	90 - 110	0	20

Eurofins Albuquerque

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

GC VOA

Analysis Batch: 76683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Total/NA	Solid	8021B	76689
885-1706-2	BH24-21 0ft	Total/NA	Solid	8021B	76689
885-1706-3	BH24-22 0ft	Total/NA	Solid	8021B	76689
885-1706-4	BH24-23 0ft	Total/NA	Solid	8021B	76689
885-1706-5	BH24-25 0ft	Total/NA	Solid	8021B	76689
885-1706-6	BH24-26 0ft	Total/NA	Solid	8021B	76689
MB 880-76689/5-A	Method Blank	Total/NA	Solid	8021B	76689
LCS 880-76689/1-A	Lab Control Sample	Total/NA	Solid	8021B	76689
LCSD 880-76689/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	76689

Prep Batch: 76689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Total/NA	Solid	5035	
885-1706-2	BH24-21 0ft	Total/NA	Solid	5035	
885-1706-3	BH24-22 0ft	Total/NA	Solid	5035	
885-1706-4	BH24-23 0ft	Total/NA	Solid	5035	
885-1706-5	BH24-25 0ft	Total/NA	Solid	5035	
885-1706-6	BH24-26 0ft	Total/NA	Solid	5035	
MB 880-76689/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-76689/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-76689/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 76669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Total/NA	Solid	8015B NM	76734
885-1706-2	BH24-21 0ft	Total/NA	Solid	8015B NM	76734
885-1706-3	BH24-22 0ft	Total/NA	Solid	8015B NM	76734
885-1706-4	BH24-23 0ft	Total/NA	Solid	8015B NM	76734
885-1706-5	BH24-25 0ft	Total/NA	Solid	8015B NM	76734
885-1706-6	BH24-26 0ft	Total/NA	Solid	8015B NM	76734
MB 880-76734/1-A	Method Blank	Total/NA	Solid	8015B NM	76734
LCS 880-76734/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	76734
LCSD 880-76734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	76734
885-1706-1 MS	BH24-08 2ft	Total/NA	Solid	8015B NM	76734
885-1706-1 MSD	BH24-08 2ft	Total/NA	Solid	8015B NM	76734

Prep Batch: 76734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Total/NA	Solid	8015NM Prep	
885-1706-2	BH24-21 0ft	Total/NA	Solid	8015NM Prep	
885-1706-3	BH24-22 0ft	Total/NA	Solid	8015NM Prep	
885-1706-4	BH24-23 0ft	Total/NA	Solid	8015NM Prep	
885-1706-5	BH24-25 0ft	Total/NA	Solid	8015NM Prep	
885-1706-6	BH24-26 0ft	Total/NA	Solid	8015NM Prep	
MB 880-76734/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-76734/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-76734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
885-1706-1 MS	BH24-08 2ft	Total/NA	Solid	8015NM Prep	
885-1706-1 MSD	BH24-08 2ft	Total/NA	Solid	8015NM Prep	

Eurofins Albuquerque

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QC Association Summary

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

HPLC/IC

Leach Batch: 76738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Soluble	Solid	DI Leach	
885-1706-2	BH24-21 0ft	Soluble	Solid	DI Leach	
885-1706-3	BH24-22 0ft	Soluble	Solid	DI Leach	
885-1706-4	BH24-23 0ft	Soluble	Solid	DI Leach	
885-1706-5	BH24-25 0ft	Soluble	Solid	DI Leach	
885-1706-6	BH24-26 0ft	Soluble	Solid	DI Leach	
MB 880-76738/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-76738/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-76738/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-1706-1 MS	BH24-08 2ft	Soluble	Solid	DI Leach	
885-1706-1 MSD	BH24-08 2ft	Soluble	Solid	DI Leach	

Analysis Batch: 76756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1706-1	BH24-08 2ft	Soluble	Solid	300.0	76738
885-1706-2	BH24-21 0ft	Soluble	Solid	300.0	76738
885-1706-3	BH24-22 0ft	Soluble	Solid	300.0	76738
885-1706-4	BH24-23 0ft	Soluble	Solid	300.0	76738
885-1706-5	BH24-25 0ft	Soluble	Solid	300.0	76738
885-1706-6	BH24-26 0ft	Soluble	Solid	300.0	76738
MB 880-76738/1-A	Method Blank	Soluble	Solid	300.0	76738
LCS 880-76738/2-A	Lab Control Sample	Soluble	Solid	300.0	76738
LCSD 880-76738/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	76738
885-1706-1 MS	BH24-08 2ft	Soluble	Solid	300.0	76738
885-1706-1 MSD	BH24-08 2ft	Soluble	Solid	300.0	76738

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Client: Vertex

Soluble

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-08 2ft

Date Collected: 03/21/24 12:00 Date Received: 03/23/24 10:40 Lab Sample ID: 885-1706-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 18:34
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 18:44
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17

Client Sample ID: BH24-21 Oft

Date Collected: 03/21/24 12:15 Date Received: 03/23/24 10:40

Analysis

300.0

Lab Sample ID: 885-1706-2 **Matrix: Solid**

03/27/24 23:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 18:55
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 19:48
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17
Soluble	Analysis	300.0		1	76756	SMC	EET MID	03/28/24 00:14

Lab Sample ID: 885-1706-3 Client Sample ID: BH24-22 Oft

76756 SMC

EET MID

Date Collected: 03/21/24 12:30 Date Received: 03/23/24 10:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 19:15
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 20:10
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17
Soluble	Analysis	300.0		1	76756	SMC	EET MID	03/28/24 00:29

Client Sample ID: BH24-23 Oft Lab Sample ID: 885-1706-4 Date Collected: 03/21/24 12:45 Matrix: Solid

Date Received: 03/23/24 10:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 19:36
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 20:32
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17
Soluble	Analysis	300.0		1	76756	SMC	EET MID	03/28/24 00:34

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-25 Oft

Lab Sample ID: 885-1706-5 Date Collected: 03/21/24 13:00 **Matrix: Solid**

Date Received: 03/23/24 10:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 19:57
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 20:53
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17
Soluble	Analysis	300.0		1	76756	SMC	EET MID	03/28/24 00:38

Client Sample ID: BH24-26 Oft

Date Collected: 03/21/24 13:15

Date Received: 03/23/24 10:40

Lab	Sample	ID:	885-1706-6
			Matrix: Solid

Prep Type Total/NA Total/NA Total/NA	Batch	Batch		Dilution	Batch			Prepared
Prep Type	pe Type Method Prep 5035 Analysis 8021B Prep 8015NM Prep Analysis 8015B NM Leach DI Leach	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5035			76689	EL	EET MID	03/27/24 09:11
Total/NA	Analysis	8021B		1	76683	MNR	EET MID	03/27/24 20:17
Total/NA	Prep	8015NM Prep			76734	EL	EET MID	03/27/24 12:12
Total/NA	Analysis	8015B NM		1	76669	SM	EET MID	03/27/24 21:15
Soluble	Leach	DI Leach			76738	SA	EET MID	03/27/24 12:17
Soluble	Analysis	300.0		1	76756	SMC	EET MID	03/28/24 00:43

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex Job ID: 885-1706-1

Project/Site: PLU 25 Brushy Draw West

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24

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	n 5/02U/	25 Brushy Draw West							No C		278-22-	HEAL No.		2	60	ה	\$	9			t etc.	3/22/24	
Turn-Around Time	Standard ZRush	Project Name PLU 25 Bru		Project # 24E-00670		Project Manager Sally Carttar		in the second	Sampler Wyatt Wadleigh	olers.	Cooler Temp(induding of): 5	Container Preservative Type	1, 4oz jar			N POWER		ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハー・ハ					
Tum	S	Proje		Proje		Proje			Sample On Ice	to #	Coole	Container Type and	1,4	1,4	1, 4	1,4	1,4	1,4			0000		· ^ ^ / 5
Chain-of-Custody Record						/ertex ca		☐ Level 4 (Full Validation)	☐ Az Compliance			Sample Name	BH24-08 2ft	BH24-21 Oft	BH24-22 Off	BH24-23 Off	BH24-25 Oft	BH24-26 Oft			Doling in the Wheat West	מלמיו למיוי	
of-Cu	(O		On File			artter@v			☐ Az Cor☐			Matrix	Soil	Soil	Soul	Soil	Soul	Soul			deliberio		
hain-	ertex (XT				On File	Fax# Sc	ackage	ard				Time	12.00	12 15	12 30	12 45	13 00	13 15			- imo	8	
ਹ	Client Vertex (XTO)		Mailing Address		Phone #	email or Fax# Scartter@vertex ca	QA/QC Package	☐ Standard	Accreditation	□ EDD (Type)		Date	03/21/24	03/21/24	03/21/24	03/21/24	03/21/24	03/21/24			6	18/08/20 ME/08/2	

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-1706-1

Login Number: 1706 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Vertex Job Number: 885-1706-1

List Source: Eurofins Midland
List Number: 2
List Creation: 03/27/24 11:39 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 10/15/2024 1:40:29 PM Revision 1

JOB DESCRIPTION

PLU 25 Brushy Draw West

JOB NUMBER

885-1922-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 10/15/2024 1:40:29 PM Revision 1

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)345-3975 __

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л Л Client: Vertex Laboratory Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

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Definitions/Glossary

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) **DER** Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: Vertex Job ID: 885-1922-1

Project: PLU 25 Brushy Draw West

Job ID: 885-1922-1 **Eurofins Albuquerque**

> Job Narrative 885-1922-1

REVISION

The report being provided is a revision of the original report sent on 4/3/2024. The report (revision 1) is being revised due to Changed BH24-23 0' to BH24-23 2'.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/28/2024 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-76919 and analytical batch 880-76887 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-77127 and analytical batch 880-77142 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

BH24-21 2ft (885-1922-1), BH24-22 2ft (885-1922-2), BH24-23 2ft (885-1922-3), BH24-30 0ft (885-1922-4), BH24-25 1ft (885-1922-5) and BH24-26 2ft (885-1922-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-21 2ft

Lab Sample ID: 885-1922-1

Method: SW846 8021B - Vola	_	•	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:01	1
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:01	,
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:01	•
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 16:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			03/29/24 12:05	03/29/24 16:01	
1,4-Difluorobenzene (Surr)	102		70 - 130			03/29/24 12:05	03/29/24 16:01	1
	_	_						
Method: SW846 8015B NM - I Analyte	Result	Organics Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	_	_		Unit mg/Kg	<u>D</u>	Prepared 03/29/24 12:09		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	_	RL 50	mg/Kg	<u>D</u>	03/29/24 12:09	03/29/24 13:47	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	_	RL		<u>D</u>	03/29/24 12:09		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	_	RL 50	mg/Kg	<u>D</u>	03/29/24 12:09	03/29/24 13:47	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result ND ND	Qualifier	FL 50	mg/Kg	<u>D</u>	03/29/24 12:09	03/29/24 13:47	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result ND ND	Qualifier	FL 50 50 50	mg/Kg	<u> </u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09	03/29/24 13:47 03/29/24 13:47 03/29/24 13:47 <i>Analyzed</i>	
	Result ND ND ND ND %Recovery	Qualifier	50 50 50 Limits	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 13:47 03/29/24 13:47 03/29/24 13:47 <i>Analyzed</i>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result ND ND ND %Recovery 99 83	Qualifier Qualifier	50 50 50 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 13:47 03/29/24 13:47 03/29/24 13:47 Analyzed 03/29/24 13:47	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result ND ND ND %Recovery 99 83	Qualifier Qualifier	50 50 50 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 13:47 03/29/24 13:47 03/29/24 13:47 Analyzed 03/29/24 13:47	Dil Fac

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-22 2ft

Lab Sample ID: 885-1922-2

Matrix: Solid

Date Collected: 03/22/24 10:30 Date Received: 03/28/24 08:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:21	
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:21	•
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 16:21	•
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 16:21	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130			03/29/24 12:05	03/29/24 16:21	
1,4-Difluorobenzene (Surr)	90		70 - 130			03/29/24 12:05	03/29/24 16:21	
Gasoline Range Organics (GRO)-C6-C10	ND		50	mg/Kg		03/29/24 12:09	03/29/24 14:08	
Method: SW846 8015B NM - D Analyte	_	Qualifier	RL (DRO)	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/29/24 12:09	03/29/24 14:08	•
Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/29/24 12:09	03/29/24 14:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130			03/29/24 12:09	03/29/24 14:08	
o-Terphenyl	80		70 - 130			03/29/24 12:09	03/29/24 14:08	
Method: EPA 300.0 - Anions,			Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	31		5.1	mg/Kg			04/02/24 19:01	

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-23 2ft

Lab Sample ID: 885-1922-3 Matrix: Solid

Date Collected: 03/22/24 11:00 Date Received: 03/28/24 08:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 17:45	
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 17:45	1
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 17:45	1
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			03/29/24 12:05	03/29/24 17:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130			03/29/24 12:05	03/29/24 17:45	1
Method: SW846 8015B NM - I Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 244040 ou 120 MM - L	Jiesei Kaliut	; Ulualiics	(DRU) (GC)					
Analyte Gasoline Range Organics	_	_	. , . ,	Unit mg/Kg	<u>D</u>	Prepared 03/29/24 12:09	Analyzed 03/29/24 14:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	_	RL	mg/Kg	<u>D</u>	03/29/24 12:09		Dil Fac
Analyte Gasoline Range Organics	Result	_	RL 50		<u>D</u>	03/29/24 12:09	03/29/24 14:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	_	RL 50	mg/Kg	<u>D</u>	03/29/24 12:09	03/29/24 14:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result ND ND	Qualifier	FL 50 50	mg/Kg	<u> </u>	03/29/24 12:09	03/29/24 14:30 03/29/24 14:30	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result ND ND ND	Qualifier	FRL 50 50 50	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09	03/29/24 14:30 03/29/24 14:30 03/29/24 14:30	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result ND ND ND ND %Recovery	Qualifier	FRL 50 50 50 Limits	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared	03/29/24 14:30 03/29/24 14:30 03/29/24 14:30 Analyzed 03/29/24 14:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result ND ND ND ND **Recovery** 100 84	Qualifier Qualifier	8L 50 50 50 50 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 14:30 03/29/24 14:30 03/29/24 14:30 Analyzed 03/29/24 14:30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result ND ND ND **Recovery 100 84	Qualifier Qualifier	8L 50 50 50 50 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/29/24 12:09 03/29/24 12:09 03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 14:30 03/29/24 14:30 03/29/24 14:30 Analyzed 03/29/24 14:30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-30 Oft Date Collected: 03/22/24 14:00

Lab Sample ID: 885-1922-4

Matrix: Solid

Chloride

Analyte	tile Organic Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:06	1
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:06	1
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:06	1
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			03/29/24 12:05	03/29/24 18:06	1
4-DIOINGIIGOIODENZENE (SUN)	• • • • • • • • • • • • • • • • • • • •							
1,4-Diffluorobenzene (Surr) Method: SW846 8015B NM - D	102 Diesel Range	_	70 - 130 (DRO) (GC)				03/29/24 18:06	•
1,4-Difluorobenzene (Surr)	102	0				03/29/24 12:05	03/29/24 18:06	1
1,4-Difluorobenzene (Surr) Method: SW846 8015B NM - D Analyte	102 Diesel Range Result	Organics Qualifier	(DRO) (GC)	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Diesel Range Result ND	_	(DRO) (GC) RL 50	mg/Kg	<u>D</u>	Prepared 03/29/24 12:09	Analyzed 03/29/24 14:52	,
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	102 Diesel Range Result	_	(DRO) (GC)		<u>D</u>	Prepared 03/29/24 12:09	Analyzed	,
Method: SW846 8015B NM - DANAILYE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result ND	_	(DRO) (GC) RL 50	mg/Kg	<u>D</u>	Prepared 03/29/24 12:09 03/29/24 12:09	Analyzed 03/29/24 14:52	·
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Diesel Range Result ND	Qualifier	(DRO) (GC) RL 50	mg/Kg	<u>D</u>	Prepared 03/29/24 12:09 03/29/24 12:09	Analyzed 03/29/24 14:52 03/29/24 14:52	,
Method: SW846 8015B NM - DAnalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Diesel Range Result ND ND ND	Qualifier	(DRO) (GC) RL 50 50	mg/Kg	D_	Prepared 03/29/24 12:09 03/29/24 12:09 03/29/24 12:09	Analyzed 03/29/24 14:52 03/29/24 14:52 03/29/24 14:52 Analyzed	Dil Fac

5.0

mg/Kg

120

04/02/24 19:26

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-25 1ft

Lab Sample ID: 885-1922-5

Date Collected: 03/22/24 11:00 Matrix: Solid Date Received: 03/28/24 08:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:26	1
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:26	1
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:26	1
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/29/24 12:05	03/29/24 18:26	1
1,4-Difluorobenzene (Surr)	87		70 - 130			03/29/24 12:05	03/29/24 18:26	1
Analyte	_	Qualifier	RL 50	Unit	<u>D</u>	Prepared 03/29/24 12:09	Analyzed 03/29/24 15:14	Dil Fac
Method: SW846 8015B NM - I Analyte	_	_		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		30	mg/Kg		03/23/24 12:03	00/20/24 10:14	
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/29/24 12:09	03/29/24 15:14	1
o • • • • • • • • • • • • • • • • • • •	ND ND		50 50	mg/Kg mg/Kg			03/29/24 15:14 03/29/24 15:14	•
C10-C28)		Qualifier		0 0				1
C10-C28) Oil Range Organics (Over C28-C36)	ND	Qualifier	50	0 0		03/29/24 12:09	03/29/24 15:14	1
C10-C28) Oil Range Organics (Over C28-C36) Surrogate	ND %Recovery	Qualifier	50 Limits	0 0		03/29/24 12:09 Prepared	03/29/24 15:14 Analyzed	1
C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 113 96		50 Limits 70 - 130 70 - 130	0 0		03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 15:14 Analyzed 03/29/24 15:14	Dil Fac
C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 113 96		50 Limits 70 - 130 70 - 130	0 0	D	03/29/24 12:09 Prepared 03/29/24 12:09	03/29/24 15:14 Analyzed 03/29/24 15:14	Dil Fac

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-26 2ft

Lab Sample ID: 885-1922-6 Matrix: Solid

Date Collected: 03/22/24 12:00 Date Received: 03/28/24 08:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:46	1
Toluene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:46	1
Ethylbenzene	ND		0.0020	mg/Kg		03/29/24 12:05	03/29/24 18:46	1
Xylenes, Total	ND		0.0040	mg/Kg		03/29/24 12:05	03/29/24 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			03/29/24 12:05	03/29/24 18:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/29/24 12:05	03/29/24 18:46	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		50	mg/Kg		03/29/24 12:09	03/29/24 15:35	1
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/29/24 12:09	03/29/24 15:35	1
Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/29/24 12:09	03/29/24 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/29/24 12:09	03/29/24 15:35	1
o-Terphenyl	86		70 - 130			03/29/24 12:09	03/29/24 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	96	5.0	mg/Kg			04/02/24 19:39	1	

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-76918/5-A

Matrix: Solid

Analysis Batch: 76894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76918

	IVID IVID						
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.0020	mg/Kg		03/29/24 12:05	03/29/24 12:54	1
Toluene	ND	0.0020	mg/Kg		03/29/24 12:05	03/29/24 12:54	1
Ethylbenzene	ND	0.0020	mg/Kg		03/29/24 12:05	03/29/24 12:54	1
Xylenes, Total	ND	0.0040	mg/Kg		03/29/24 12:05	03/29/24 12:54	1

MB MB

MD MD

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/29/24 12:0	5 03/29/24 12:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/29/24 12:0	5 03/29/24 12:54	1

Lab Sample ID: LCS 880-76918/1-A

Matrix: Solid

Analysis Batch: 76894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 76918

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.112		mg/Kg		112	70 - 130	
Toluene	0.100	0.109		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.104		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.201		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.0989		mg/Kg		99	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-76918/2-A

Matrix: Solid

Analysis Batch: 76894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 76918

,, c.c = a.cc ccc .									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.105		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.100		mg/Kg		100	70 - 130	9	35
Ethylbenzene	0.100	0.0941		mg/Kg		94	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.188		mg/Kg		94	70 - 130	7	35
o-Xylene	0.100	0.0916		mg/Kg		92	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	120	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-76919/1-A

Matrix: Solid

Analysis Batch: 76887

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 76919

	MB MB						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND —	50	mg/Kg		03/29/24 09:00	03/29/24 09:33	1

(GRO)-C6-C10

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

168 S1+

Lab Sample ID: MB 880-76919/1-A **Matrix: Solid**

Analysis Batch: 76887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 76919

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	ND		50	mg/Kg		03/29/24 09:00	03/29/24 09:33	1
Oil Range Organics (Over C28-C36)	ND		50	mg/Kg		03/29/24 09:00	03/29/24 09:33	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130			03/29/24 09:00	03/29/24 09:33	1

70 - 130

Lab Sample ID: LCS 880-76919/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 76887

Client Sample ID: Lab Control Sample

03/29/24 09:00 03/29/24 09:33

Prep Type: Total/NA

Prep Batch: 76919

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	912		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	915		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	105	70 - 130

Lab Sample ID: LCSD 880-76919/3-A

Matrix: Solid

Analysis Batch: 76887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 76919

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	 1000	959		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	923		mg/Kg		92	70 - 130	1	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-77127/1-A

Released to Imaging: 12/10/2024 1:34:09 PM

Matrix: Solid

Analysis Batch: 77142

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed D Dil Fac Chloride ND 5.0 mg/Kg 04/02/24 18:05

QC Sample Results

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-77127/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 77142

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 251 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-77127/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid Analysis Batch: 77142

LCSD LCSD RPD Spike %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 251 100 90 - 110 0 mg/Kg

QC Association Summary

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

GC VOA

Analysis Batch: 76894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Total/NA	Solid	8021B	76918
885-1922-2	BH24-22 2ft	Total/NA	Solid	8021B	76918
885-1922-3	BH24-23 2ft	Total/NA	Solid	8021B	76918
885-1922-4	BH24-30 0ft	Total/NA	Solid	8021B	76918
885-1922-5	BH24-25 1ft	Total/NA	Solid	8021B	76918
885-1922-6	BH24-26 2ft	Total/NA	Solid	8021B	76918
MB 880-76918/5-A	Method Blank	Total/NA	Solid	8021B	76918
LCS 880-76918/1-A	Lab Control Sample	Total/NA	Solid	8021B	76918
LCSD 880-76918/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	76918

Prep Batch: 76918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Total/NA	Solid	5035	
885-1922-2	BH24-22 2ft	Total/NA	Solid	5035	
885-1922-3	BH24-23 2ft	Total/NA	Solid	5035	
885-1922-4	BH24-30 0ft	Total/NA	Solid	5035	
885-1922-5	BH24-25 1ft	Total/NA	Solid	5035	
885-1922-6	BH24-26 2ft	Total/NA	Solid	5035	
MB 880-76918/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-76918/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-76918/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 76887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Total/NA	Solid	8015B NM	76919
885-1922-2	BH24-22 2ft	Total/NA	Solid	8015B NM	76919
885-1922-3	BH24-23 2ft	Total/NA	Solid	8015B NM	76919
885-1922-4	BH24-30 Oft	Total/NA	Solid	8015B NM	76919
885-1922-5	BH24-25 1ft	Total/NA	Solid	8015B NM	76919
885-1922-6	BH24-26 2ft	Total/NA	Solid	8015B NM	76919
MB 880-76919/1-A	Method Blank	Total/NA	Solid	8015B NM	76919
LCS 880-76919/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	76919
LCSD 880-76919/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	76919

Prep Batch: 76919

Released to Imaging: 12/10/2024 1:34:09 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Total/NA	Solid	8015NM Prep	
885-1922-2	BH24-22 2ft	Total/NA	Solid	8015NM Prep	
885-1922-3	BH24-23 2ft	Total/NA	Solid	8015NM Prep	
885-1922-4	BH24-30 Oft	Total/NA	Solid	8015NM Prep	
885-1922-5	BH24-25 1ft	Total/NA	Solid	8015NM Prep	
885-1922-6	BH24-26 2ft	Total/NA	Solid	8015NM Prep	
MB 880-76919/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-76919/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-76919/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Albuquerque

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QC Association Summary

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

HPLC/IC

Leach Batch: 77127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Soluble	Solid	DI Leach	
885-1922-2	BH24-22 2ft	Soluble	Solid	DI Leach	
885-1922-3	BH24-23 2ft	Soluble	Solid	DI Leach	
885-1922-4	BH24-30 0ft	Soluble	Solid	DI Leach	
885-1922-5	BH24-25 1ft	Soluble	Solid	DI Leach	
885-1922-6	BH24-26 2ft	Soluble	Solid	DI Leach	
MB 880-77127/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-77127/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-77127/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 77142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1922-1	BH24-21 2ft	Soluble	Solid	300.0	77127
885-1922-2	BH24-22 2ft	Soluble	Solid	300.0	77127
885-1922-3	BH24-23 2ft	Soluble	Solid	300.0	77127
885-1922-4	BH24-30 Oft	Soluble	Solid	300.0	77127
885-1922-5	BH24-25 1ft	Soluble	Solid	300.0	77127
885-1922-6	BH24-26 2ft	Soluble	Solid	300.0	77127
MB 880-77127/1-A	Method Blank	Soluble	Solid	300.0	77127
LCS 880-77127/2-A	Lab Control Sample	Soluble	Solid	300.0	77127
LCSD 880-77127/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	77127

Client: Vertex Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-21 2ft

Lab Sample ID: 885-1922-1 Date Collected: 03/22/24 10:00

Matrix: Solid

Date Received: 03/28/24 08:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 16:01
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 13:47
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 18:55

Client Sample ID: BH24-22 2ft

Date Collected: 03/22/24 10:30

Lab Sample ID: 885-1922-2

Matrix: Solid

Date Received: 03/28/24 08:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 16:21
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 14:08
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 19:01

Client Sample ID: BH24-23 2ft

Date Collected: 03/22/24 11:00

Date Received: 03/28/24 08:40

Lab Sample ID: 885-1922-3

Matrix: Solid

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 17:45
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 14:30
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 19:20

Client Sample ID: BH24-30 Oft

Date Collected: 03/22/24 14:00

Date Received: 03/28/24 08:40

Lab	Sample	ID:	885-1922-4
	_		Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 18:06
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 14:52
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 19:26

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-25 1ft

Lab Sample ID: 885-1922-5

Date Collected: 03/22/24 11:00 **Matrix: Solid** Date Received: 03/28/24 08:40

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 18:26
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 15:14
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 19:32

Client Sample ID: BH24-26 2ft

Lab Sample ID: 885-1922-6 Date Collected: 03/22/24 12:00 **Matrix: Solid**

Date Received: 03/28/24 08:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			76918	EL	EET MID	03/29/24 12:05
Total/NA	Analysis	8021B		1	76894	MNR	EET MID	03/29/24 18:46
Total/NA	Prep	8015NM Prep			76919	EL	EET MID	03/29/24 12:09
Total/NA	Analysis	8015B NM		1	76887	SM	EET MID	03/29/24 15:35
Soluble	Leach	DI Leach			77127	SA	EET MID	04/02/24 13:45
Soluble	Analysis	300.0		1	77142	SMC	EET MID	04/02/24 19:39

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex Job ID: 885-1922-1

Project/Site: PLU 25 Brushy Draw West

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24

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Che	in-of-Ci	Chain-of-Custody Record	I urn-Around Time:	me:					1	Ū		MINO	Ū	-
Client: Vertex (XTO)	(XTO)		Standard	Rush Rush	KRush 500W			L Q	ANA	- K	IS	ANALYSTS LABORA	₩	
			Project Name:	PLU 25 Brus	Project Name:PLU 25 Brushy Draw West				www.h	allenvi	ronme	www.hallenvironmental.com		
Mailing Add	Mailing Address: On File						4901	Hawk	4901 Hawkins NE	- 1	ndner	Albuquerque, NM 87109		885-1922 COC
			Project #: 24E	#: 24E-00670			Tel.	505-34	Tel. 505-345-3975		ax 5(Fax 505-345-4107		
Phone #: On File	r File						1	ı	П	Analysis Request	sis Re	quest		
email or Fa	email or Fax#: Scartter@vertex.ca	ivertex.ca	Project Manag	Manager: Sally Carttar	rttar					[†] OS		(tue		
QA/QC Package:	19e:								SWIS	O [¢] , S		esdA\		
☐ Standard Accreditation:		☐ Level 4 (Full Validation) ☐ Az Compliance	Sampler: Wyatt Wadleigh	tt Wadleigh					32703	10 ⁵ ' F	-	juəse		
□ NELAC		91	On Ice:	₹ Yes	ON □						100			
☐ EDD (Type))e)		# of Coolers:											
			Cooler Temp	Temp(including CF): 3.9	3. E'E =1'0-8									
Date	Time Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	BTEX /	08:H9T Pg 1808	EDB (N	PAHs b	3 F, E	v) 0928 8) 0728	O lstoT		
03/22/24 1(10:00 Soil	BH24-21 2ft	1, 4oz jar		<u>}</u> _	×	×			×				
03/22/24 10	10:30 Soil	BH24-22 2ft	1, 4oz jar		て	×	×			×				
03/22/24 1	11:00 Soil	BH24-23 Oft	1, 4oz jar		-3	×	×			×				
03/22/24 14	14:00 Soil	BH24-30 Oft	1, 4oz jar		7.1	×	×			×				
03/22/24 1	11:00 Soil	BH24-25 1ft	1, 4oz jar		\$	×	×			×				
03/22/24 12	12:00 Soil	BH24-26 2ft	1, 4oz jar		-,0	×	×			×				
							-		+					
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									+	1	+			
									+		+			F
							+				\vdash			
Short Maso		Relinquished by: Wyatt Wadleigh	Received by:	Via:	San Time	Rem	arks: F center	lease Num	Remarks: Please CC wwadleigh@ Cost center Number: 2191851001	vadlei 91851	3h@v	Remarks: Please CC wwadleigh@vertex.ca Cost center Number: 2191851001		
Spring Time:	Relinquished by:	shed by:	Received by:	Via: Counter	S Date of Time	1								
If nec	essary, samples su	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other acc	credited laboratorion	es. This serves as notice of thi	is possibil	lity. Any	sub-con	tracted da	ta will be	clearly	otated on the ans	alytical rep	ort.

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-1922-1

Login Number: 1922 List Source: Eurofins Albuquerque

List Number: 1

Creator: Lowman, Nick

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Login Sample Receipt Checklist

Client: Vertex Job Number: 885-1922-1

Login Number: 1922 **List Source: Eurofins Midland** List Creation: 03/29/24 10:53 AM List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carter Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 4/9/2024 4:01:11 PM

JOB DESCRIPTION

PLU 25 Brushy Draw West

JOB NUMBER

885-2016-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 4/9/2024 4:01:11 PM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975

Client: Vertex

Laboratory Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

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Definitions/Glossary

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Glossary

LOQ

Abbreviation	on These commonly used abbreviations may or may not be present in this report.						
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CFL	Contains Free Liquid						
CFU	Colony Forming Unit						
CNF	Contains No Free Liquid						
DER	Duplicate Error Ratio (normalized absolute difference)						
Dil Fac	Dilution Factor						
DL	Detection Limit (DoD/DOE)						
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample						
DLC	Decision Level Concentration (Radiochemistry)						
EDL	Estimated Detection Limit (Dioxin)						
LOD	Limit of Detection (DoD/DOE)						

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Limit of Quantitation (DoD/DOE)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Vertex Job ID: 885-2016-1

Project: PLU 25 Brushy Draw West

Job ID: 885-2016-1 Eurofins Albuquerque

Job Narrative 885-2016-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
 demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
 method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/29/2024 7:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-2722 recovered above the upper control limit for Di-n-octyl phthalate (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

ND

Analyte

Chloride

Client Sample ID: BH24-30 2ft

Date Collected: 03/26/24 10:30

Date Received: 03/29/24 07:55

Lab Sample ID: 885-2016-1

Dil Fac

20

Analyzed

04/02/24 13:50

ab	Jaili	hie	ID.	003-20	10-1
				N. A. Audens	0 - 11 -1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/29/24 15:54	04/03/24 08:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		15 - 244			03/29/24 15:54	04/03/24 08:12	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 08:12	1
Ethylbenzene	ND		0.050	mg/Kg		03/29/24 15:54	04/03/24 08:12	1
Toluene	ND		0.050	mg/Kg		03/29/24 15:54	04/03/24 08:12	1
Xylenes, Total	ND		0.10	mg/Kg		03/29/24 15:54	04/03/24 08:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		39 - 146			03/29/24 15:54	04/03/24 08:12	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/01/24 16:29	04/03/24 11:54	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/01/24 16:29	04/03/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/01/24 16:29	04/03/24 11:54	1

RL

60

Unit

mg/Kg

Prepared

04/02/24 09:41

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-2523/1-A **Matrix: Solid**

Analysis Batch: 2726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2523

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 03/29/24 15:54 04/02/24 23:51

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 110 15 - 244 03/29/24 15:54 04/02/24 23:51

Lab Sample ID: LCS 885-2523/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 2726

Prep Type: Total/NA

Prep Batch: 2523

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 24.6 mg/Kg 99 70 - 130Gasoline Range Organics [C6 -C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 15 - 244 4-Bromofluorobenzene (Surr) 221

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-2518/1-A

Matrix: Solid

Analysis Batch: 2731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2518

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.025 03/29/24 14:08 04/02/24 12:57 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 03/29/24 14:08 04/02/24 12:57 04/02/24 12:57 Toluene NΠ 0.050 03/29/24 14:08 mg/Kg Xylenes, Total ND 0.10 mg/Kg 03/29/24 14:08 04/02/24 12:57

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 04/02/24 12:57 4-Bromofluorobenzene (Surr) 39 - 146 03/29/24 14:08 93

Lab Sample ID: MB 885-2523/1-A

Matrix: Solid

Analysis Batch: 2731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2523

MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		03/29/24 15:54	04/02/24 23:51	1
Ethylbenzene	ND	0.050	mg/Kg		03/29/24 15:54	04/02/24 23:51	1
Toluene	ND	0.050	mg/Kg		03/29/24 15:54	04/02/24 23:51	1
Xylenes, Total	ND	0.10	mg/Kg		03/29/24 15:54	04/02/24 23:51	1

MB MB

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 39 - 146 4-Bromofluorobenzene (Surr) 97 03/29/24 15:54 04/02/24 23:51

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-2523/3-A

Matrix: Solid Analysis Batch: 2731 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA Prep Batch: 2523

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.932		mg/Kg		93	70 - 130	
Ethylbenzene	1.00	0.935		mg/Kg		93	70 - 130	
m,p-Xylene	2.00	1.89		mg/Kg		95	70 - 130	
o-Xylene	1.00	0.942		mg/Kg		94	70 - 130	
Toluene	1.00	0.968		mg/Kg		97	70 - 130	
Xylenes, Total	3.00	2.83		mg/Kg		94	70 - 130	

LCS LCS

%Recovery Qualifier Surrogate Limits 39 - 146 4-Bromofluorobenzene (Surr) 99

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-2574/1-A

Matrix: Solid

Analysis Batch: 2722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2574

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/01/24 16:29	04/03/24 11:30	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/01/24 16:29	04/03/24 11:30	1

MB MB

MR MR

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 62 - 134 04/01/24 16:29 04/03/24 11:30 Di-n-octyl phthalate (Surr) 106

Lab Sample ID: LCS 885-2574/2-A

Matrix: Solid

Analysis Batch: 2722

Client Sample ID: Lab Control Sample

Prep Batch: 2574

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics	50.0	49.3		mg/Kg		99	60 - 135	

[C10-C28]

LCS LCS

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 128 62 - 134

Lab Sample ID: 885-2016-1 MS

Matrix: Solid

Analysis Batch: 2722

Client Sample ID: BH24-30 2ft

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics	ND		45.0	42.8		mg/Kg		95	44 - 136	

[C10-C28]

MS MS

Surrogate %Recovery Qualifier Di-n-octyl phthalate (Surr) 105 62 - 134

Limits

Eurofins Albuquerque

Prep Type: Total/NA

Client Sample ID: BH24-30 2ft

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: BH24-30 2ft

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 2604

Prep Batch: 2604

Prep Type: Total/NA

Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-2016-1 MSD

Analysis Batch: 2722

Prep Batch: 2574 Sample Sample Spike MSD MSD RPD Result Qualifier Qualifier RPD Analyte Added Result Unit %Rec Limits Limit Diesel Range Organics ND 46.4 41.9 mg/Kg 90 44 - 136 2 32

[C10-C28]

Client: Vertex

Matrix: Solid

MSD MSD

%Recovery Limits Surrogate Qualifier 62 - 134 Di-n-octyl phthalate (Surr) 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-2604/1-A

Matrix: Solid

Analysis Batch: 2667

мв мв

Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed Chloride 3.0 mg/Kg 04/02/24 09:41 04/02/24 10:37 ND

Lab Sample ID: LCS 885-2604/2-A

Matrix: Solid

Analysis Batch: 2667

Spike LCS LCS %Rec Added Analyte Result Qualifier %Rec Limits Unit D Chloride 30.0 28.0 mg/Kg 93 90 - 110

Lab Sample ID: 885-2016-1 MS

Matrix: Solid

Analysis Batch: 2667

Prep Batch: 2604 MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride ND 29.7 84.7 50 - 150 mg/Kg NC

Lab Sample ID: 885-2016-1 MSD

Client Sample ID: BH24-30 2ft **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 2667** Prep Batch: 2604 MSD MSD RPD %Rec

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride ND 29.8 83.1 NC 50 - 150 20 mg/Kg

QC Association Summary

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

GC VOA

Prep Batch: 2518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-2518/1-A	Method Blank	Total/NA	Solid	5030C	

Prep Batch: 2523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2016-1	BH24-30 2ft	Total/NA	Solid	5030C	
MB 885-2523/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-2523/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-2523/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 2726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2016-1	BH24-30 2ft	Total/NA	Solid	8015D	2523
MB 885-2523/1-A	Method Blank	Total/NA	Solid	8015D	2523
LCS 885-2523/2-A	Lab Control Sample	Total/NA	Solid	8015D	2523

Analysis Batch: 2731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2016-1	BH24-30 2ft	Total/NA	Solid	8021B	2523
MB 885-2518/1-A	Method Blank	Total/NA	Solid	8021B	2518
MB 885-2523/1-A	Method Blank	Total/NA	Solid	8021B	2523
LCS 885-2523/3-A	Lab Control Sample	Total/NA	Solid	8021B	2523

GC Semi VOA

Prep Batch: 2574

Lab Sample ID 885-2016-1	Client Sample ID BH24-30 2ft	Prep Type Total/NA	Matrix Solid	Method SHAKE	Prep Batch
MB 885-2574/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2574/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2016-1 MS	BH24-30 2ft	Total/NA	Solid	SHAKE	
885-2016-1 MSD	BH24-30 2ft	Total/NA	Solid	SHAKE	

Analysis Batch: 2722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2016-1	BH24-30 2ft	Total/NA	Solid	8015D	2574
MB 885-2574/1-A	Method Blank	Total/NA	Solid	8015D	2574
LCS 885-2574/2-A	Lab Control Sample	Total/NA	Solid	8015D	2574
885-2016-1 MS	BH24-30 2ft	Total/NA	Solid	8015D	2574
885-2016-1 MSD	BH24-30 2ft	Total/NA	Solid	8015D	2574

HPLC/IC

Prep Batch: 2604

Lab Sample ID 885-2016-1	Client Sample ID BH24-30 2ft	Prep Type Total/NA	Matrix Solid	Method 300_Prep	Prep Batch
MB 885-2604/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2604/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-2016-1 MS	BH24-30 2ft	Total/NA	Solid	300_Prep	
885-2016-1 MSD	BH24-30 2ft	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

HPLC/IC

Analysis Batch: 2667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2016-1	BH24-30 2ft	Total/NA	Solid	300.0	2604
MB 885-2604/1-A	Method Blank	Total/NA	Solid	300.0	2604
LCS 885-2604/2-A	Lab Control Sample	Total/NA	Solid	300.0	2604
885-2016-1 MS	BH24-30 2ft	Total/NA	Solid	300.0	2604
885-2016-1 MSD	BH24-30 2ft	Total/NA	Solid	300.0	2604

4/9/2024

Lab Chronicle

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Date Received: 03/29/24 07:55

Client Sample ID: BH24-30 2ft

Lab Sample ID: 885-2016-1 Date Collected: 03/26/24 10:30

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 5030C 03/29/24 15:54 Total/NA Prep 2523 IMR **EET ALB** 8015D Total/NA Analysis 1 2726 RA **EET ALB** 04/03/24 08:12 Total/NA Prep 5030C 2523 IMR **EET ALB** 03/29/24 15:54 Total/NA Analysis 8021B 1 2731 RA **EET ALB** 04/03/24 08:12 Total/NA Prep SHAKE 2574 JU **EET ALB** 04/01/24 16:29 Total/NA Analysis 8015D 1 2722 JU **EET ALB** 04/03/24 11:54 Total/NA 300 Prep **EET ALB** 04/02/24 09:41 Prep 2604 JT Total/NA 300.0 2667 JT **EET ALB** 04/02/24 13:50 Analysis 20

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-2016-1

Project/Site: PLU 25 Brushy Draw West

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Prog	ram	Identification Number	Expiration Date		
ew Mexico	State		NM9425, NM0901	02-26-25		
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This li	governing authority. This list may include analytes		
for which the agency d	oes not offer certification.					
Analysis Method Prep Method		Matrix	Analyte			
300.0	300_Prep	Solid	Chloride			
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]			
8015D	SHAKE	Solid	Diesel Range Organics [C	C10-C28]		
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]			
8021B	5030C	Solid	Benzene			
8021B	5030C	Solid	Ethylbenzene			
8021B	5030C	Solid	Toluene			
8021B	5030C	Solid	Xylenes, Total			
egon	NELA	ΔP	NM100001	02-26-25		

Eurofins Albuquerque

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S	hain-	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:								200		· ·	
Client: V	Client: Vertex (XTO)	10)		Standard	Z Rush	5 DAW	Л		Z	A K	XS]	S	ANALYSIS LABOF HE		1	
				Project Name	PLU 25 Brus	Project Name: PLU 25 Brushy Draw West			>	w.ha	lenviro	nmer	www.hallenvironmental.com			
Mailing /	Mailing Address: On File	On File					7	1901 F	4901 Hawkins NE	NE S	- Albuc	dnerd	Albuquerque, NM 871			,
				Project #: 24	24E-00670			Tel. 5(505-345-3975	-3975	Fax	× 505	505-345-4107		885-2016 COC	,
Phone #	Phone #: On File									٩	Analysis		Rednest			
email or	Fax#: S	email or Fax#: Scartter@vertex.ca	/ertex.ca	Project Mana	Project Manager: Sally Carttar	rttar					^р О9		(ju			
QA/QC Package:	ackage:								3/1	CIAI	S '¢C	_	əsqv			
□ Standard	lard		☐ Level 4 (Full Validation)						1302	ICO) bd		Α∖tu			
Accreditation:	ation:	□ Az Cc	☐ Az Compliance	Sampler: Wya	Wyatt Wadleigh					170	ZON					
□ NELAC	Ş	□ Other		On Ice:	₩ Yes	□ No					٤, ا	AC				
☐ EDD (Type)	(Type)_			# of Coolers:	/	MOSTX										
				Cooler Temp(including CF):	(including CF): 0, 4.	4-0.1=0.3						_				
Date	Time	Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	BTEX /	08:H9T 9 1808	EDB (N	PAHs b	Cl, F, E	v) 0828 B) 0728	O lstoT			
03/26/24	10:30	Soil	BH24-30 2ft	1, 4oz jar			×				×					
									-							
		,							4			-				
												_				
												-				
Date:	Time:	Relinquist	Relinquished by: Wyatt Wadleigh	Received by:	Via:	3/37/34 1030	Rema Cost o	rks: PI	ease (C ww er: 219	adleigh 18510	ا@ve 01	Remarks: Please CC wwadleigh@vertex.ca Cost center Number: 2191851001	1		
9/37/34	Jate: Time:	Relinquished by:	ned by:	Received by:	Via:	Date Time - 3/24/24 755										4
	if necessary.	samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other a	scredited laboratorie	es. This serves as notice of the	is possibili	ty. Any s	ub-contra	cted data	will be c	learly no	tated on the	analytical	report.]

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2016-1

Login Number: 2016 List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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1'

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 7/12/2024 10:24:37 AM

JOB DESCRIPTION

PLU 25 Brushy Draw West

JOB NUMBER

885-6878-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 7/12/2024 10:24:37 AM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)345-3975 9

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Client: Vertex

Laboratory Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

CSI

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Definitions/Glossary

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: Vertex Job ID: 885-6878-1

Project: PLU 25 Brushy Draw West

Job ID: 885-6878-1 Eurofins Albuquerque

Job Narrative 885-6878-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/26/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-05 0.0'

Date Collected: 06/24/24 10:00

Date Received: 06/26/24 07:50

Toluene

Xylenes, Total

Lab Sample ID: 885-6878-1

07/03/24 16:29

07/03/24 16:29

06/26/24 11:16

06/26/24 11:16

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/26/24 11:16	07/03/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			06/26/24 11:16	07/03/24 16:29	1
_								
Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC)						
Method: SW846 8021B - Volatil Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared 06/26/24 11:16	Analyzed 07/03/24 16:29	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145	06/26/24 11:16	07/03/24 16:29	1
_						

0.048

0.096

mg/Kg

mg/Kg

ND

ND

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		06/26/24 13:39	06/27/24 07:11	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/26/24 13:39	06/27/24 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		62 - 134			06/26/24 13:39	06/27/24 07:11	1

Method: EPA 300.0 - Anions, Ion Chromatography									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	11000		600	mg/Kg		06/27/24 10:14	06/28/24 22:13	200

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Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-07 0.0'

Lab Sample ID: 885-6878-2 Date Collected: 06/24/24 10:05

Matrix: Solid

Date Received: 06/26/24 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		06/26/24 11:16	07/03/24 16:53	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			06/26/24 11:16	07/03/24 16:53	1
Analyte	Result ND	Qualifier	RL	Unit mg/Kg	D	Prepared 06/26/24 11:16	Analyzed	Dil Fac
Method: SW846 8021B - Volati	•	• • •		Unit	n	Prenared	Analyzed	Dil Fac
Benzene			0.024	mg/Kg			07/03/24 16:53	1
	ND		0.049	mg/Kg		06/26/24 11:16	07/03/24 16:53	1
Ethylbenzene								
Ethylbenzene Toluene	ND		0.049	mg/Kg		06/26/24 11:16	07/03/24 16:53	1
•			0.049 0.098	mg/Kg mg/Kg		06/26/24 11:16 06/26/24 11:16	07/03/24 16:53 07/03/24 16:53	1
Toluene	ND	Qualifier						1 1 <i>Dil Fac</i>

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	8.8	mg/Kg		06/26/24 13:39	06/27/24 07:23	1
Motor Oil Range Organics [C28-C40]	ND	44	mg/Kg		06/26/24 13:39	06/27/24 07:23	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103	62 - 134			06/26/24 13:39	06/27/24 07:23	1

metriou. El A 000.0 - Amorio, for e	momatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370	60	mg/Kg	_	06/27/24 10:14	06/27/24 22:57	20

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Released to Imaging: 12/10/2024 1:34:09 PM

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-07 1.5'

Lab Sample ID: 885-6878-3 Date Collected: 06/24/24 10:20

Matrix: Solid

Date Received: 06/26/24 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/26/24 11:16	07/03/24 17:17	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/26/24 11:16	07/03/24 17:17	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 11:16	07/03/24 17:17	1
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 11:16	07/03/24 17:17	1
Toluene	ND		0.050	mg/Kg		06/26/24 11:16	07/03/24 17:17	1
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 11:16	07/03/24 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			06/26/24 11:16	07/03/24 17:17	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/26/24 13:39	06/27/24 07:36	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/26/24 13:39	06/27/24 07:36	1
Surrogate	%Recovery	Ovalifian	Limits			Prepared	Analyzed	Dil Fac

Method: EDA 200.0. Anione Jon Chromotography
Method: EPA 300.0 - Anions, Ion Chromatography

98

Di-n-octyl phthalate (Surr)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95	60	mg/Kg		06/27/24 10:14	06/27/24 23:10	20

62 - 134

Eurofins Albuquerque

06/26/24 13:39 06/27/24 07:36

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-09 0.0'

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-4 Date Collected: 06/24/24 10:25

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/26/24 11:16	07/03/24 18:04	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			06/26/24 11:16	07/03/24 18:04	1
Method: SW846 8021B - Volati Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte					<u>D</u>	Prepared 06/26/24 11:16	Analyzed 07/03/24 18:04	Dil Fac
Analyte Benzene	Result		RL	Unit mg/Kg mg/Kg	<u>D</u>			Dil Fac
Analyte Benzene Ethylbenzene	Result ND		RL 0.025	mg/Kg	<u>D</u>	06/26/24 11:16	07/03/24 18:04	Dil Fac 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND		0.025 0.050	mg/Kg	<u>D</u>	06/26/24 11:16 06/26/24 11:16	07/03/24 18:04 07/03/24 18:04	Dil Fac 1 1 1 1
	Result ND ND ND	Qualifier	RL 0.025 0.050 0.050	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/26/24 11:16 06/26/24 11:16 06/26/24 11:16	07/03/24 18:04 07/03/24 18:04 07/03/24 18:04	Dil Fac 1 1 1 1 1 Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/26/24 13:39	06/27/24 07:48	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/26/24 13:39	06/27/24 07:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			06/26/24 13:39	06/27/24 07:48	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000		600	mg/Kg		06/27/24 10:14	06/28/24 22:52	200

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-10 0.0'

Lab Sample ID: 885-6878-5

Matrix: Solid

Date Collected: 06/24/24 10:30 Date Received: 06/26/24 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/26/24 15:02	06/28/24 14:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		35 - 166			06/26/24 15:02	06/28/24 14:15	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 14:15	-
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 14:15	(
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 14:15	
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 15:02	06/28/24 14:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		48 - 145			06/26/24 15:02	06/28/24 14:15	
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	23		9.7	mg/Kg		06/27/24 08:15	06/27/24 13:00	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/27/24 08:15	06/27/24 13:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	98		62 - 134			06/27/24 08:15	06/27/24 13:00	
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	17000		600	mg/Kg		06/27/24 10:14	06/28/24 23:04	20

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-11 0.0'

Lab Sample ID: 885-6878-6

Date Collected: 06/24/24 10:35 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/26/24 15:02	06/28/24 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		35 - 166			06/26/24 15:02	06/28/24 15:21	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 15:21	1
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 15:21	1
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 15:21	1
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 15:02	06/28/24 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			06/26/24 15:02	06/28/24 15:21	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		06/27/24 08:15	06/27/24 13:12	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/27/24 08:15	06/27/24 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			06/27/24 08:15	06/27/24 13:12	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6700		300	mg/Kg		06/27/24 10:14	06/28/24 23:17	100

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-11 1.5'

Lab Sample ID: 885-6878-7 Date Collected: 06/24/24 10:45

Matrix: Solid

06/27/24 08:15

Prepared

06/27/24 10:14

06/27/24 13:25

Analyzed

06/28/24 00:27

Dil Fac

20

Date Received: 06/26/24 07:50

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/26/24 15:02	06/28/24 16:27	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			06/26/24 15:02	06/28/24 16:27	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 16:27	1
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 16:27	1
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 16:27	1
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 15:02	06/28/24 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/26/24 15:02	06/28/24 16:27	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		06/27/24 08:15	06/27/24 13:25	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/27/24 08:15	06/27/24 13:25	1

62 - 134

RL

59

Unit

mg/Kg

100

280

Result Qualifier

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-31 0.0'

Lab Sample ID: 885-6878-8 Date Collected: 06/24/24 10:50

Matrix: Solid

Date Received: 06/26/24 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	MD		5.0	mg/Kg		06/26/24 15:02	06/28/24 16:49	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			06/26/24 15:02	06/28/24 16:49	1
- Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 16:49	1
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 16:49	1
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 16:49	1
Xylenes, Total	ND		0.099	mg/Kg		06/26/24 15:02	06/28/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/26/24 15:02	06/28/24 16:49	1
- Method: SW846 8015M/D - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
D: 1D 0 : [010 000]						00/07/04 00 45	00/07/04 40 00	

Α	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
D	iesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/27/24 08:15	06/27/24 13:38	1
M	lotor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/27/24 08:15	06/27/24 13:38	1
s	urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
D	i-n-octyl phthalate (Surr)	95		62 - 134			06/27/24 08:15	06/27/24 13:38	1

Method: FPA	300.0 -	- Anions	Ion Chron	natography

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	60	mg/Kg		06/27/24 10:14	06/28/24 00:40	20

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-32 0.0'

Lab Sample ID: 885-6878-9 Date Collected: 06/24/24 10:55

%Recovery Qualifier

93

Matrix: Solid

Prepared

06/26/24 15:02

Analyzed

06/28/24 17:33

Date	Received:	06/26/24	07:50
_			

Surrogate

4-Bromofluorobenzene (Surr)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/26/24 15:02	06/28/24 17:33	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati	99 ile Organic Comp	ounds (GC)	35 - 166			06/26/24 15:02	06/28/24 17:33	1
Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC) Qualifier		Unit	D	06/26/24 15:02 Prepared	06/28/24 17:33 Analyzed	1 Dil Fac
	ile Organic Comp	, ,		Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volati Analyte	ile Organic Comp	, ,	RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: SW846 8021B - Volati Analyte Benzene	ile Organic Comp Result ND	, ,	RL 0.025	mg/Kg	<u>D</u>	Prepared 06/26/24 15:02	Analyzed 06/28/24 17:33	1 Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/27/24 08:15	06/27/24 13:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/27/24 08:15	06/27/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			06/27/24 08:15	06/27/24 13:50	1

Limits

48 - 145

Method. LFA 300.0 - Amons, fon Ci	inomatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	60	mg/Kg		06/27/24 10:14	06/28/24 00:53	20

Eurofins Albuquerque

Dil Fac

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

60

Analyte

Chloride

Client Sample ID: BH24-32 1.0'

Date Collected: 06/24/24 11:10

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-10

Ma

atrix:	Solid
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		06/26/24 15:02	06/28/24 17:55	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			06/26/24 15:02	06/28/24 17:55	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/26/24 15:02	06/28/24 17:55	1
Ethylbenzene	ND		0.048	mg/Kg		06/26/24 15:02	06/28/24 17:55	1
Toluene	ND		0.048	mg/Kg		06/26/24 15:02	06/28/24 17:55	1
Xylenes, Total	ND		0.096	mg/Kg		06/26/24 15:02	06/28/24 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/26/24 15:02	06/28/24 17:55	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/27/24 08:15	06/27/24 14:03	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/27/24 08:15	06/27/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			06/27/24 08:15	06/27/24 14:03	1

RL

60

Unit

mg/Kg

Prepared

06/27/24 15:29

Analyzed

06/27/24 23:53

Dil Fac

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-33 0.0'

Lab Sample ID: 885-6878-11

06/27/24 08:15

Prepared

06/27/24 15:29

06/27/24 14:15

Analyzed

07/01/24 17:31

Dil Fac

100

Matrix: Solid

Date Collected: 06/24/24 11:15 Date Received: 06/26/24 07:50

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/26/24 15:02	06/28/24 18:17	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			06/26/24 15:02	06/28/24 18:17	1
- Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 18:17	1
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 18:17	1
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 18:17	1
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 15:02	06/28/24 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			06/26/24 15:02	06/28/24 18:17	1
- Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/27/24 08:15	06/27/24 14:15	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/27/24 08:15	06/27/24 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

62 - 134

RL

300

Unit

mg/Kg

99

8300

Result Qualifier

Eurofins Albuquerque

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-33 2.0'

Lab Sample ID: 885-6878-12

Matrix: Solid

Date Collected: 06/24/24 11:30
Date Received: 06/26/24 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)												
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/26/24 15:02	06/28/24 18:39	1				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	91		35 - 166			06/26/24 15:02	06/28/24 18:39	1				

7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/26/24 15:02	06/28/24 18:39	1
Ethylbenzene	ND		0.049	mg/Kg		06/26/24 15:02	06/28/24 18:39	1
Toluene	ND		0.049	mg/Kg		06/26/24 15:02	06/28/24 18:39	1
Xylenes, Total	ND		0.098	mg/Kg		06/26/24 15:02	06/28/24 18:39	1

10

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 92
 48 - 145
 06/26/24 15:02
 06/28/24 18:39
 1

1-

Method: SW846 8015M/D - Diese	l Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/27/24 08:15	06/27/24 14:28	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/27/24 08:15	06/27/24 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			06/27/24 08:15	06/27/24 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	620		60	mg/Kg		06/27/24 15:29	06/28/24 00:43	20	

Job ID: 885-6878-1 Client: Vertex

Project/Site: PLU 25 Brushy Draw West

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7434

Prep Batch: 7404

Prep Batch: 7404

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

70 - 130

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-7404/1-A

Matrix: Solid

Analysis Batch: 7896

MB MB

Spike

babbA

25.0

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 06/26/24 11:16 07/03/24 14:55 (GRO)-C6-C10

MB MB

%Recovery Limits Qualifier Prepared Dil Fac Surrogate Analyzed 35 - 166 06/26/24 11:16 07/03/24 14:55 4-Bromofluorobenzene (Surr) 96

Lab Sample ID: LCS 885-7404/2-A

Analysis Batch: 7896

Matrix: Solid

Analyte Gasoline Range Organics (GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 209 S1+ 35 - 166

Lab Sample ID: MB 885-7434/1-A

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 7671

MB MB

ND

Analyte Gasoline Range Organics

Surrogate

4-Bromofluorobenzene (Surr)

Analysis Batch: 7671

Gasoline Range Organics

Lab Sample ID: LCS 885-7434/2-A

Result Qualifier

MB MB

%Recovery Qualifier 94

Limits 35 - 166

Spike

Added

25.0

RL

5.0

LCS LCS

Qualifier

Result

25.6

Unit

mg/Kg

LCS LCS

26.5

Result Qualifier

Unit

mg/Kg

D

Unit

mg/Kg

D

%Rec

106

Prepared 06/26/24 15:02

%Rec

102

D

Prepared

06/26/24 15:02

06/28/24 08:42

Analyzed

Client Sample ID: Method Blank

Analyzed

06/28/24 08:42

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Dil Fac

Dil Fac

Prep Batch: 7434

Limits 70 - 130

%Rec

(GRO)-C6-C10

Analyte

Matrix: Solid

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 204 S1+ 35 - 166

Lab Sample ID: 885-6878-5 MS

Matrix: Solid

Analysis Batch: 7671

Gasoline Range Organics (GRO)-C6-C10

Sample Sample Result ND

Qualifier

Added 25.0

Spike

Result Qualifier 26.9

MS MS

Unit mg/Kg

%Rec 108

%Rec Limits 70 - 130

Client Sample ID: BH24-10 0.0'

Prep Type: Total/NA

Prep Batch: 7434

Client Sample ID: BH24-10 0.0'

Client Sample ID: BH24-10 0.0

%Rec

Limits

70 - 130

Client Sample ID: Method Blank

Analyzed

07/03/24 14:55

07/03/24 14:55

07/03/24 14:55

07/03/24 14:55

%Rec

100

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7434

RPD

Prep Type: Total/NA

Prep Batch: 7404

Dil Fac

Prep Batch: 7434

Spike

Added

Limits

25.0

Job ID: 885-6878-1 Client: Vertex

Project/Site: PLU 25 Brushy Draw West

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-6878-5 MS **Matrix: Solid**

Analysis Batch: 7671

4-Bromofluorobenzene (Surr)

MS MS

Sample Sample

Result

ND

%Recovery Qualifier Limits 214 S1+ 35 - 166

Lab Sample ID: 885-6878-5 MSD

Matrix: Solid

Surrogate

Analysis Batch: 7671

Analyte

Gasoline Range Organics (GRO)-C6-C10

Surrogate 4-Bromofluorobenzene (Surr)

MSD MSD %Recovery Qualifier

213 S1+

MB MB

Result

ND

ND

ND

ND

MB MB

Qualifier

35 - 166

Qualifier

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7404/1-A

Matrix: Solid

Analyte

Benzene

Ethylbenzene

Matrix: Solid

Analyte

Benzene

o-Xylene

Toluene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 7897

Toluene Xvlenes, Total

Surrogate 4-Bromofluorobenzene (Surr)

Analysis Batch: 7897

Lab Sample ID: LCS 885-7404/3-A

%Recovery 88

Qualifier

Limits 48 - 145

Spike

Added

1.00

1.00

2.00

1 00

1.00

48 - 145

RL

0.025

0.050

0.050

0.10

LCS LCS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Result

0.882

0.850

1.73

0.834

0.845

MSD MSD

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

Result

24.9

D

Prepared 06/26/24 11:16

D

Prepared

06/26/24 11:16

06/26/24 11:16

06/26/24 11:16

06/26/24 11:16

07/03/24 14:55

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 7404

%Rec

70 - 130

70 - 130

%Rec Limits 88 70 - 130 85 70 - 13087 70 - 130

83

85

LCS LCS Limits %Recovery Qualifier

мв мв

90

Lab Sample ID: MB 885-7434/1-A

Matrix: Solid

4-Bromofluorobenzene (Surr)

Analysis Batch: 7673

Result Analyte Benzene

Qualifier ND

RL

0.025

Unit mg/Kg Prepared

06/26/24 15:02

Analyzed 06/28/24 08:42

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7434

Dil Fac

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RPD

Limit

20

Analyzed Dil Fac Client: Vertex

Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-7434/1-A

Matrix: Solid

Analysis Batch: 7673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7434

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 08:42	1
Toluene	ND		0.050	mg/Kg		06/26/24 15:02	06/28/24 08:42	1
Xylenes, Total	ND		0.10	mg/Kg		06/26/24 15:02	06/28/24 08:42	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	l imits			Prepared	Analyzed	Dil Fac

48 - 145

Lab Sample ID: LCS 885-7434/3-A

Matrix: Solid

Analysis Batch: 7673

4-Bromofluorobenzene (Surr)

Client Sample ID: Lab Control Sample

06/28/24 08:42

06/26/24 15:02

Prep Type: Total/NA

Prep Batch: 7434

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.895		mg/Kg		90	70 - 130	
Ethylbenzene	1.00	0.908		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	2.00	1.83		mg/Kg		91	70 - 130	
o-Xylene	1.00	0.918		mg/Kg		92	70 - 130	
Toluene	1.00	0.897		mg/Kg		90	70 - 130	
100	100							

LCS LCS

95

91

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 48 - 145 90

Lab Sample ID: 885-6878-6 MS

Matrix: Solid

Analysis Batch: 7673

Client Sample ID: BH24-11 0.0' Prep Type: Total/NA

Prep Batch: 7434

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.999	0.922		mg/Kg		92	70 - 130	
Ethylbenzene	ND		0.999	0.949		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	ND		2.00	1.90		mg/Kg		95	70 - 130	
o-Xylene	ND		0.999	0.973		mg/Kg		97	70 - 130	
Toluene	ND		0.999	0.935		mg/Kg		94	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

48 - 145

Lab Sample ID: 885-6878-6 MSD

Matrix: Solid

Analysis Batch: 7673

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-11 0.0'

Prep Type: Total/NA

Prep Batch: 7434

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.991	0.885		mg/Kg		89	70 - 130	4	20
Ethylbenzene	ND		0.991	0.927		mg/Kg		93	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.98	1.86		mg/Kg		94	70 - 130	2	20
o-Xylene	ND		0.991	0.930		mg/Kg		94	70 - 130	5	20
Toluene	ND		0.991	0.900		mg/Kg		91	70 - 130	4	20

Job ID: 885-6878-1 Client: Vertex

RL

10

50

Project/Site: PLU 25 Brushy Draw West

Lab Sample ID: 885-6878-6 MSD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Analysis Batch: 7673

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 48 - 145 Client Sample ID: BH24-11 0.0'

Prep Type: Total/NA

Prep Batch: 7434

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-7423/1-A Matrix: Solid

Analysis Batch: 7443

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Client Sample ID: Method Blank Prep Type: Total/NA

D

Prepared

06/26/24 13:39

06/26/24 13:39

06/26/24 13:39

Unit

mg/Kg

mg/Kg

Prep Batch: 7423

Dil Fac Analyzed 06/27/24 04:04

06/27/24 04:04

MB MB

Qualifier

MB MB

Result

ND

ND

%Recovery Limits Qualifier Surrogate Di-n-octyl phthalate (Surr) 90 62 - 134 Prepared Analyzed

Dil Fac 06/27/24 04:04

Lab Sample ID: LCS 885-7423/2-A

Lab Sample ID: MB 885-7454/1-A

Matrix: Solid

Analysis Batch: 7443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 7423

%Rec

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 44.2 88 60 - 135 mg/Kg

[C10-C28]

Analyte

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 95 62 - 134

Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 7443** Prep Batch: 7454

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 10 06/27/24 08:15 Diesel Range Organics [C10-C28] ND mg/Kg 06/27/24 12:35 Motor Oil Range Organics [C28-C40] ND 50 06/27/24 08:15 06/27/24 12:35 mg/Kg

MR MR

%Recovery Qualifier Limits Prepared Surrogate 06/27/24 08:15 06/27/24 12:35 Di-n-octyl phthalate (Surr) 99 62 - 134

Lab Sample ID: LCS 885-7454/2-A

Matrix: Solid

Analysis Batch: 7443

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 7454

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Diesel Range Organics 50.0 38.0 76 mg/Kg 60 - 135

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 99 62 - 134

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Dil Fac Analyzed

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 7524

Prep Batch: 7485

Prep Batch: 7485

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7485/1-A **Matrix: Solid**

Analysis Batch: 7495

MB MB

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride ND 3.0 mg/Kg 06/27/24 10:14 06/27/24 18:06

Lab Sample ID: LCS 885-7485/2-A

Matrix: Solid

Analysis Batch: 7495

Spike LCS LCS Added Analyte Result Qualifier Unit

D %Rec Limits Chloride 30.0 28.3 mg/Kg 94 90 - 110

Lab Sample ID: MB 885-7495/34 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7495

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 0.50 06/28/24 01:18 ND mg/Kg

Lab Sample ID: MRL 885-7495/33

Matrix: Solid

Analysis Batch: 7495

MRL MRL Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 0.500 0.547 109 50 - 150 mg/L

Lab Sample ID: MB 885-7524/1-A

Matrix: Solid

Analysis Batch: 7586

MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed 3.0 Chloride ND mg/Kg 06/27/24 15:29 06/27/24 23:29

Matrix: Solid

Analysis Batch: 7586

Lab Sample ID: LCS 885-7524/2-A Client Sample ID: Lab Control Sample

> Spike LCS LCS

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 30.0 28.0 mg/Kg 93 90 - 110

Lab Sample ID: 885-6878-10 MS

Matrix: Solid

Analysis Batch: 7586

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chloride 60 30.1 69.7 mg/Kg NC 50 - 150

Lab Sample ID: 885-6878-10 MSD

Matrix: Solid

Analysis Batch: 7586

Spike Sample MSD MSD %Rec RPD Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 60 30.1 74.5 mg/Kg NC 50 - 150

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Client Sample ID: Method Blank

Dil Fac

Prep Type: Total/NA

Prep Batch: 7524

Client Sample ID: BH24-32 1.0' Prep Type: Total/NA

Prep Batch: 7524

Client Sample ID: BH24-32 1.0'

Prep Batch: 7524

QC Sample Results

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7733/4 Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 7733

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed Chloride ND0.50 mg/Kg 07/01/24 13:14

Lab Sample ID: MRL 885-7733/3 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7733 Spike MRL MRL

%Rec Added Result Qualifier Limits Analyte Unit D %Rec 0.500 Chloride 0.557 mg/L 111 50 - 150

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

GC VOA

Prep Batch: 7404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	5030C	
885-6878-2	BH24-07 0.0'	Total/NA	Solid	5030C	
885-6878-3	BH24-07 1.5'	Total/NA	Solid	5030C	
885-6878-4	BH24-09 0.0'	Total/NA	Solid	5030C	
MB 885-7404/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7404/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7404/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 7434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-5	BH24-10 0.0'	Total/NA	Solid	5030C	
885-6878-6	BH24-11 0.0'	Total/NA	Solid	5030C	
885-6878-7	BH24-11 1.5'	Total/NA	Solid	5030C	
885-6878-8	BH24-31 0.0'	Total/NA	Solid	5030C	
885-6878-9	BH24-32 0.0'	Total/NA	Solid	5030C	
885-6878-10	BH24-32 1.0'	Total/NA	Solid	5030C	
885-6878-11	BH24-33 0.0'	Total/NA	Solid	5030C	
885-6878-12	BH24-33 2.0'	Total/NA	Solid	5030C	
MB 885-7434/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7434/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7434/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-6878-5 MS	BH24-10 0.0'	Total/NA	Solid	5030C	
885-6878-5 MSD	BH24-10 0.0'	Total/NA	Solid	5030C	
885-6878-6 MS	BH24-11 0.0'	Total/NA	Solid	5030C	
885-6878-6 MSD	BH24-11 0.0'	Total/NA	Solid	5030C	

Analysis Batch: 7671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-5	BH24-10 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-6	BH24-11 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-7	BH24-11 1.5'	Total/NA	Solid	8015M/D	7434
885-6878-8	BH24-31 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-9	BH24-32 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-10	BH24-32 1.0'	Total/NA	Solid	8015M/D	7434
885-6878-11	BH24-33 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-12	BH24-33 2.0'	Total/NA	Solid	8015M/D	7434
MB 885-7434/1-A	Method Blank	Total/NA	Solid	8015M/D	7434
LCS 885-7434/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7434
885-6878-5 MS	BH24-10 0.0'	Total/NA	Solid	8015M/D	7434
885-6878-5 MSD	BH24-10 0.0'	Total/NA	Solid	8015M/D	7434

Analysis Batch: 7673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-5	BH24-10 0.0'	Total/NA	Solid	8021B	7434
885-6878-6	BH24-11 0.0'	Total/NA	Solid	8021B	7434
885-6878-7	BH24-11 1.5'	Total/NA	Solid	8021B	7434
885-6878-8	BH24-31 0.0'	Total/NA	Solid	8021B	7434
885-6878-9	BH24-32 0.0'	Total/NA	Solid	8021B	7434
885-6878-10	BH24-32 1.0'	Total/NA	Solid	8021B	7434
885-6878-11	BH24-33 0.0'	Total/NA	Solid	8021B	7434
885-6878-12	BH24-33 2.0'	Total/NA	Solid	8021B	7434

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

GC VOA (Continued)

Analysis Batch: 7673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-7434/1-A	Method Blank	Total/NA	Solid	8021B	7434
LCS 885-7434/3-A	Lab Control Sample	Total/NA	Solid	8021B	7434
885-6878-6 MS	BH24-11 0.0'	Total/NA	Solid	8021B	7434
885-6878-6 MSD	BH24-11 0.0'	Total/NA	Solid	8021B	7434

Analysis Batch: 7896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	8015M/D	7404
885-6878-2	BH24-07 0.0'	Total/NA	Solid	8015M/D	7404
885-6878-3	BH24-07 1.5'	Total/NA	Solid	8015M/D	7404
885-6878-4	BH24-09 0.0'	Total/NA	Solid	8015M/D	7404
MB 885-7404/1-A	Method Blank	Total/NA	Solid	8015M/D	7404
LCS 885-7404/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7404

Analysis Batch: 7897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	8021B	7404
885-6878-2	BH24-07 0.0'	Total/NA	Solid	8021B	7404
885-6878-3	BH24-07 1.5'	Total/NA	Solid	8021B	7404
885-6878-4	BH24-09 0.0'	Total/NA	Solid	8021B	7404
MB 885-7404/1-A	Method Blank	Total/NA	Solid	8021B	7404
LCS 885-7404/3-A	Lab Control Sample	Total/NA	Solid	8021B	7404

GC Semi VOA

Prep Batch: 7423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	SHAKE	
885-6878-2	BH24-07 0.0'	Total/NA	Solid	SHAKE	
885-6878-3	BH24-07 1.5'	Total/NA	Solid	SHAKE	
885-6878-4	BH24-09 0.0'	Total/NA	Solid	SHAKE	
MB 885-7423/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7423/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 7443

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	8015M/D	7423
885-6878-2	BH24-07 0.0'	Total/NA	Solid	8015M/D	7423
885-6878-3	BH24-07 1.5'	Total/NA	Solid	8015M/D	7423
885-6878-4	BH24-09 0.0'	Total/NA	Solid	8015M/D	7423
885-6878-5	BH24-10 0.0'	Total/NA	Solid	8015M/D	7454
885-6878-6	BH24-11 0.0'	Total/NA	Solid	8015M/D	7454
885-6878-7	BH24-11 1.5'	Total/NA	Solid	8015M/D	7454
885-6878-8	BH24-31 0.0'	Total/NA	Solid	8015M/D	7454
885-6878-9	BH24-32 0.0'	Total/NA	Solid	8015M/D	7454
885-6878-10	BH24-32 1.0'	Total/NA	Solid	8015M/D	7454
885-6878-11	BH24-33 0.0'	Total/NA	Solid	8015M/D	7454
885-6878-12	BH24-33 2.0'	Total/NA	Solid	8015M/D	7454
MB 885-7423/1-A	Method Blank	Total/NA	Solid	8015M/D	7423
MB 885-7454/1-A	Method Blank	Total/NA	Solid	8015M/D	7454
LCS 885-7423/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7423

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Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

GC Semi VOA (Continued)

Analysis Batch: 7443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-7454/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7454

Prep Batch: 7454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-5	BH24-10 0.0'	Total/NA	Solid	SHAKE	_
885-6878-6	BH24-11 0.0'	Total/NA	Solid	SHAKE	
885-6878-7	BH24-11 1.5'	Total/NA	Solid	SHAKE	
885-6878-8	BH24-31 0.0'	Total/NA	Solid	SHAKE	
885-6878-9	BH24-32 0.0'	Total/NA	Solid	SHAKE	
885-6878-10	BH24-32 1.0'	Total/NA	Solid	SHAKE	
885-6878-11	BH24-33 0.0'	Total/NA	Solid	SHAKE	
885-6878-12	BH24-33 2.0'	Total/NA	Solid	SHAKE	
MB 885-7454/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7454/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 7485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	300_Prep	_
885-6878-2	BH24-07 0.0'	Total/NA	Solid	300_Prep	
885-6878-3	BH24-07 1.5'	Total/NA	Solid	300_Prep	
885-6878-4	BH24-09 0.0'	Total/NA	Solid	300_Prep	
885-6878-5	BH24-10 0.0'	Total/NA	Solid	300_Prep	
885-6878-6	BH24-11 0.0'	Total/NA	Solid	300_Prep	
885-6878-7	BH24-11 1.5'	Total/NA	Solid	300_Prep	
885-6878-8	BH24-31 0.0'	Total/NA	Solid	300_Prep	
885-6878-9	BH24-32 0.0'	Total/NA	Solid	300_Prep	
MB 885-7485/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7485/2-A	Lab Control Sample	Total/NA	Solid	300 Prep	

Analysis Batch: 7495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-2	BH24-07 0.0'	Total/NA	Solid	300.0	7485
885-6878-3	BH24-07 1.5'	Total/NA	Solid	300.0	7485
885-6878-7	BH24-11 1.5'	Total/NA	Solid	300.0	7485
885-6878-8	BH24-31 0.0'	Total/NA	Solid	300.0	7485
885-6878-9	BH24-32 0.0'	Total/NA	Solid	300.0	7485
MB 885-7485/1-A	Method Blank	Total/NA	Solid	300.0	7485
MB 885-7495/34	Method Blank	Total/NA	Solid	300.0	
LCS 885-7485/2-A	Lab Control Sample	Total/NA	Solid	300.0	7485
MRL 885-7495/33	Lab Control Sample	Total/NA	Solid	300.0	

Prep Batch: 7524

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-10	BH24-32 1.0'	Total/NA	Solid	300_Prep	
885-6878-11	BH24-33 0.0'	Total/NA	Solid	300_Prep	
885-6878-12	BH24-33 2.0'	Total/NA	Solid	300_Prep	
MB 885-7524/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7524/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-6878-10 MS	BH24-32 1.0'	Total/NA	Solid	300_Prep	

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Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

HPLC/IC (Continued)

Prep Batch: 7524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-10 MSD	BH24-32 1.0'	Total/NA	Solid	300_Prep	

Analysis Batch: 7586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-10	BH24-32 1.0'	Total/NA	Solid	300.0	7524
885-6878-12	BH24-33 2.0'	Total/NA	Solid	300.0	7524
MB 885-7524/1-A	Method Blank	Total/NA	Solid	300.0	7524
LCS 885-7524/2-A	Lab Control Sample	Total/NA	Solid	300.0	7524
885-6878-10 MS	BH24-32 1.0'	Total/NA	Solid	300.0	7524
885-6878-10 MSD	BH24-32 1.0'	Total/NA	Solid	300.0	7524

Analysis Batch: 7597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-1	BH24-05 0.0'	Total/NA	Solid	300.0	7485
885-6878-4	BH24-09 0.0'	Total/NA	Solid	300.0	7485
885-6878-5	BH24-10 0.0'	Total/NA	Solid	300.0	7485
885-6878-6	BH24-11 0.0'	Total/NA	Solid	300.0	7485

Analysis Batch: 7733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6878-11	BH24-33 0.0'	Total/NA	Solid	300.0	7524
MB 885-7733/4	Method Blank	Total/NA	Solid	300.0	
MRL 885-7733/3	Lab Control Sample	Total/NA	Solid	300.0	

Eurofins Albuquerque

3

4

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Q

10

Dilution

Factor

1

1

1

200

Run

Batch

7404 AT

7897 JP

7443 DH

7485 RC

Number Analyst

7896 JP

7404 AT

7423 KR

7597 RC

Project/Site: PLU 25 Brushy Draw West

Batch

Туре

Prep

Prep

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Batch

Method

5030C

5030C

8021B

SHAKE

8015M/D

300_Prep

300.0

8015M/D

Client Sample ID: BH24-05 0.0'

Lab Sample ID: 885-6878-1

Matrix: Solid

Date Collected: 06/24/24 10:00 Date Received: 06/26/24 07:50

Client: Vertex

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prepared
Analyzed
6/24 11:16
3/24 16:29
6/24 11:16

EET ALB

EET ALB

EET ALB

EET ALB

EET ALB

06/26/24 11:16 07/03/24 16:29 06/26/24 13:39 06/27/24 07:11 06/27/24 10:14

06/28/24 22:13

8

Client Sample ID: BH24-07 0.0'

Date Collected: 06/24/24 10:05

Lab Sample ID: 885-6878-2

Matrix: Solid

Date Received: 06/26/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8015M/D		1	7896	JP	EET ALB	07/03/24 16:53
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8021B		1	7897	JP	EET ALB	07/03/24 16:53
Total/NA	Prep	SHAKE			7423	KR	EET ALB	06/26/24 13:39
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 07:23
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		20	7495	RC	EET ALB	06/27/24 22:57

Client Sample ID: BH24-07 1.5'

Date Collected: 06/24/24 10:20

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8015M/D		1	7896	JP	EET ALB	07/03/24 17:17
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8021B		1	7897	JP	EET ALB	07/03/24 17:17
Total/NA	Prep	SHAKE			7423	KR	EET ALB	06/26/24 13:39
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 07:36
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		20	7495	RC	EET ALB	06/27/24 23:10

Client Sample ID: BH24-09 0.0'

Date Collected: 06/24/24 10:25

Date Received: 06/26/24 07:50

ab Sam	ple ID:	885-6878	3-4
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L

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8015M/D		1	7896	JP	EET ALB	07/03/24 18:04

Client: Vertex Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-09 0.0'

Lab Sample ID: 885-6878-4

Matrix: Solid

Date Collected: 06/24/24 10:25 Date Received: 06/26/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7404	AT	EET ALB	06/26/24 11:16
Total/NA	Analysis	8021B		1	7897	JP	EET ALB	07/03/24 18:04
Total/NA	Prep	SHAKE			7423	KR	EET ALB	06/26/24 13:39
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 07:48
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		200	7597	RC	EET ALB	06/28/24 22:52

Client Sample ID: BH24-10 0.0'

Date Collected: 06/24/24 10:30

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-5

Matrix: Solid

Batch Batch Dilution Prepared Batch Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA Prep 5030C 7434 AT **EET ALB** 06/26/24 15:02 Total/NA 8015M/D 06/28/24 14:15 7671 RA **EET ALB** Analysis 1 Total/NA 5030C **EET ALB** 06/26/24 15:02 Prep 7434 ΑT Total/NA Analysis 8021B O 7673 RA **EET ALB** 06/28/24 14:15 Total/NA **EET ALB** 06/27/24 08:15 Prep SHAKE 7454 KR 7443 DH Total/NA Analysis 8015M/D 1 **EET ALB** 06/27/24 13:00 Total/NA 300 Prep 7485 RC **EET ALB** 06/27/24 10:14 Prep 7597 RC 06/28/24 23:04 Total/NA Analysis 300.0 200 **EET ALB**

Client Sample ID: BH24-11 0.0'

Date Collected: 06/24/24 10:35

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 15:21
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 15:21
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 13:12
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		100	7597	RC	EET ALB	06/28/24 23:17

Client Sample ID: BH24-11 1.5'

Date Collected: 06/24/24 10:45

Date Received: 06/26/24 07:50

Lab Sample ID: 885-6878-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 16:27
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 16:27

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-11 1.5'

Lab Sample ID: 885-6878-7 Date Collected: 06/24/24 10:45

Matrix: Solid

Date Received: 06/26/24 07:50

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 13:25
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		20	7495	RC	EET ALB	06/28/24 00:27

Client Sample ID: BH24-31 0.0' Lab Sample ID: 885-6878-8

Matrix: Solid

Date Collected: 06/24/24 10:50 Date Received: 06/26/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 16:49
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 16:49
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 13:38
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		20	7495	RC	EET ALB	06/28/24 00:40

Client Sample ID: BH24-32 0.0' Lab Sample ID: 885-6878-9

Date Collected: 06/24/24 10:55 **Matrix: Solid**

Date Received: 06/26/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 17:33
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 17:33
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 13:50
Total/NA	Prep	300_Prep			7485	RC	EET ALB	06/27/24 10:14
Total/NA	Analysis	300.0		20	7495	RC	EET ALB	06/28/24 00:53

Client Sample ID: BH24-32 1.0' Lab Sample ID: 885-6878-10 Date Collected: 06/24/24 11:10

Date Received: 06/26/24 07:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 17:55
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 17:55
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 14:03

Project/Site: PLU 25 Brushy Draw West

Client Sample ID: BH24-32 1.0'

Lab Sample ID: 885-6878-10

Matrix: Solid

Date Collected: 06/24/24 11:10 Date Received: 06/26/24 07:50

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			7524	ES	EET ALB	06/27/24 15:29
Total/NA	Analysis	300.0		20	7586	JT	EET ALB	06/27/24 23:53

Client Sample ID: BH24-33 0.0'

Lab Sample ID: 885-6878-11

. Matrix: Solid

Date Collected: 06/24/24 11:15 Date Received: 06/26/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 18:17
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 18:17
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 14:15
Total/NA	Prep	300_Prep			7524	ES	EET ALB	06/27/24 15:29
Total/NA	Analysis	300.0		100	7733	JT	EET ALB	07/01/24 17:31

Client Sample ID: BH24-33 2.0'

Lab Sample ID: 885-6878-12

Date Collected: 06/24/24 11:30

Date Received: 06/26/24 07:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8015M/D		1	7671	RA	EET ALB	06/28/24 18:39
Total/NA	Prep	5030C			7434	AT	EET ALB	06/26/24 15:02
Total/NA	Analysis	8021B		1	7673	RA	EET ALB	06/28/24 18:39
Total/NA	Prep	SHAKE			7454	KR	EET ALB	06/27/24 08:15
Total/NA	Analysis	8015M/D		1	7443	DH	EET ALB	06/27/24 14:28
Total/NA	Prep	300_Prep			7524	ES	EET ALB	06/27/24 15:29
Total/NA	Analysis	300.0		20	7586	JT	EET ALB	06/28/24 00:43

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Vertex Job ID: 885-6878-1

Project/Site: PLU 25 Brushy Draw West

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901 02-26-25	
The following analytes	are included in this report, bu	ut the laboratory is not certi	fied by the governing authority. This lis	st may include analytes
for which the agency do	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	(GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C	:10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
Oregon	NELA	P	NM100001	02-26-25

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7/12/2024

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-6878-1

Login Number: 6878 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

September 17, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:51.

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

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

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

Accreditation applies to public drinking water matrices.

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



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

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

mg/kg

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 38 0' (H245516-01)

BTEX 8021B

BIEX GOEED	פאוקפווו		Alluly Lea By 1 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 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	128	16.0	09/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	64.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 38 1' (H245516-02)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/13/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 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	160	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH 24 - 39 0' (H245516-03)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	71.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 39 1' (H245516-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1 9	% 71.5-13	4						
Chloride SM4500Cl-R	ma/	ka	Analyze	d Rv. HM					

Suiroguiei / Bromojimorocenzene (112	, 0.1	, , , , , , , , , , , , , , , , , , , ,	•						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134
Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celeg D. Freene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BH 24 - 40 0' (H245516-05)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024
Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH 24 - 40 1' (H245516-06)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 41 0' (H245516-07)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	51.7	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 41 1' (H245516-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported:

09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO Sampling Date: 09/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH 24 - 41 1.5' (H245516-09)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	18						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 42 0' (H245516-10)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 42 1' (H245516-11)

BTEX 8021B

DIEX GOZID	11197	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	09/13/2024	ND	400	100	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*	<10.0	10.0	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	68.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 42 2' (H245516-12)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 42 3' (H245516-13)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2024	ND	400	100	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	09/12/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 43 0' (H245516-14)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 43 1' (H245516-15)

BTEX 8021B

DILX GOZID	1119/	<u>ka</u>	Allulyzo	.u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13-	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BH 24 - 44 0' (H245516-16)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 44 1' (H245516-17)

BTEX 8021B

DILX GOZID	1119/	- Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13-	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/13/2024	ND	400	100	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*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(575) 39	(575) 393-2326 FAX (575) 393-2476					SAIVNV	ANALYSIS REQUEST
Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	rvices (Direct Bill to XTO Energy, Inc.)	BILL 10				2	
Project Manager: Sally Carttar		P.O.#:					
Address: 3101 Boyd Drive		Company: XTO Energy, Inc	y, Inc.	_)		
City: Carlsbad State: NM	Zip: 88220	Attn: Amy Ruth		_	10)		
		Address: 3104 E. Greene St	ne St		MI		
	Project Owner: Amy Ruth	City: Carlsbad		-	0/		
Project Name: PI II 25 Brishy Draw West		State: NM Zip:	88220	21)	DR	e	
Project Name: 1 Po as prooff		Phone #: 432-661-0571		(80)/	rid	
Project Location:		1		X	RC	ılo	
Sampler Name: L. Pullman.		Fax #:		EX	GI	Ch	
FOR UNIT ONLY	MATRIX	PRESERV.	SAMPLING	ВТ	5D(
Lab I.D. Sample I.D.	DR (C)OMP. LINERS WATER	-			TPH:801		
	# COI	OTHE ACID OTHE OTHE	E TIME				
BH24-38 0'	C 1 X	09.05.24		×	×	× ×	
BH24-38 1'	C 1 X	09.05.24		*	4 >	< >	
2 BH24-39 0'	C 1 X	09.05.24	T	2	4 >	v ;	
ВН24-39 Г	C 1 X	09.05.24		< >	< >	< >	
BH24-40 0'	C 1 X	09.05.24		< >	< >	X	
BH24-40 I'	C 1 X	09.00.24		<	× ;	X	
) BH24-41 0'	C 1 X	00.05.24	T	< ;	× :	X	
BH24-41 1'	-	09.05.24	24 8:00	×	×	×	
G BH24-41 1.5'	2 C	09.05.24		×	×	X	
PLEASE NOTE: Usosay and Damagas. Cardon's satisfay and dism's sampleston of the applicables sandos. In no sweet shall Cardonia	If you any claim attenty whether bayed in contract or for, that be in classical or consequental damages, including without immitation transporter by Cardinal impartdess of whether such claim is b		ting analyses, all claims including those for neighbors, coursed by cleen, its aubitidiares, reasons of otherwise	gence and	any other o	toe of little law doctors	DOLLO O MERCH LIBERA III DOLLO PER
Relinquished By:	1 0		Verbal Result: All Results are Sally Carttar (S	e emailed.	d. Plea	Verbal Result:	Verbal Result: □ Yes □ No Add'l Phone #: All Results are emailed. Please provide Email address: Sally Carttar (\$Carttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)
Relinquished By:	Date: Received By:		REMARKS: D	irect Bi	II to XT	D Energy, Inc., Co	REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2408553359
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Intact (Initials)	Turneround Time	Time Meandard	9 🗆	Becteria (only) Sample served Temp. *C	le Condition
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	3	Thermometer ID #### Correction Factor #####	1	1	1.0.0.	☐ Yes ☐ Yes ☐ No ☐ No Corrected Famp, 1°C

5

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	(575) 393-2326 FAX (575) 393-2476 Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	(575) 393-2326 FAX (575) 393-2476 urce Services (Direct Bill to XTO Energy	nerg	y, Inc	2		1				8/	BILL TO					ANA	LYSI	ANALYSIS REQUEST	JEST
Company	Sally Carttar								P.O. #:	*	1				٦					
Address: 3101 Royd Drive	and Drive			1					Con	npar	y: X	Company: XTO Energy, Inc.	nc.			_	_			
City: Carlshad	State: NM	Zip: 88220				- 1			Attn	A	Attn: Amy Ruth	uth			10)					
Phone #:	575.725.5001	Fax #:							Add	ress	: 310	Address: 3104 E. Greene St	St		MF					
Project #: 24F-00670		Project Owner: Amy Ruth	er: Ar	ny R	냚				City	: Ca	City: Carlsbad	b			0/			_		
Project Name: PL	Project Name: PLU 25 Brushy Draw West								State:	60	X	NM Zip:	88220	021)	DR	le				
Project Location:									Pho	ne #	432	Phone #: 432-661-0571		(8	0/	orio		_		
Project Location									Eax	肿				x	R	hle		_	_	_
Sampler Name: L. Pullman.	Pullman.			1					rax #:	*	1		200	re:	(G	CI		_	_	_
FOR USE ONLY			4	H		MA	MATRIX		1	KES	PRESERV.	-	SAMPLING	вт	5D(_		_
Lab I.D.	Sample I.D.		G)RAB OR (C)OMP.	CONTAINERS	ASTEWATER		IL	LUDGE	THER:	CID/BASE:	THER:	DATE	TIME		TPH:8015					
A MYSSIN	יו נו ווי ויוום		3.			_		S	-	-	_	0		×	X	X		-		
	BH24-42 I		3 6	- /	4	×	+		#		+	09.05.24		×	×	X		-		
17	BH24-42 2"		0	-	+		+	T	#	1	+	00 05 24	Т	×	×	X		-		
T.	BH24-423'		0	-	1	>	+	T	#		+	00.00.00	T		V	V	1			
2	BH24-43 0'		C	-	-	×	-		1		+	09.05.24	T	4 >	× ;	× i	+	+	+	
7	BH24-43 I'		C	-	_	×	-	T	1	L	+	09.03.24	T	< >	< h	× 1	+	+	1	
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Relinquished By:		07:00 13.5.73-54	Received By:	sived	By:	5	6	P					REMARKS: Direct Bill to	Direct		(TO En	ergy, Inc	Cost	Center #:	XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2408553359
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

2/2



September 17, 2024

SALLY CARTTAR VERTEX RESOURCE 3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:51.

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

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

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

Celey D. Keene

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. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

A I J D. ... 711

Project Location: XTO

Sample ID: BH 24 - 10 1' (H245518-01)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/06/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 10 2' (H245518-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.09	105	2.00	1.27	
Toluene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.177	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.690	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	5.98	99.6	6.00	0.914	
Total BTEX	<0.300	0.300	09/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 10 3' (H245518-03)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.09	105	2.00	1.27	
Toluene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.177	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.690	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	5.98	99.6	6.00	0.914	
Total BTEX	<0.300	0.300	09/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 10 4' (H245518-04)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.09	105	2.00	1.27	
Toluene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.177	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.01	100	2.00	0.690	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	5.98	99.6	6.00	0.914	
Total BTEX	<0.300	0.300	09/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	3440	16.0	09/13/2024	ND	400	100	400	0.00	QM-07
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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

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

Corrected Temp. °C

780.

CHECKED BY: (Initials)

ed Time: Standard

Cool Intact Sample Condition Vo.CO

ree!

Received By:

REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403857069

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Address: 3101 Boyd Drive City: Carlsbad State: NM Zip: 88220	Dealer Harrison	Project Manager C. II.	Direct Bill to X	TO Energy,	Inc.)		В	BILL TO					ANALYS	SIS REC	TSELL		
City Carisbad State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E Greene St	Project Manager:	Sally Carttar				P	0.0.#:			-			-	100	יסבסו		
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Date: 1-1-14 Received By: Verbal Result:	ares or successors assing out	of or related to the performance of senaces her	reunder by Cardinal, regar	dess of whether su	ch clam is based in	on any of the abo	ive stated reasons	f profits incurred by or otherwise.	dert, its subsidiary					Comment of the same	a foton o aces	nd received by Cardina	al within 30 days afte
	S / Noy			Received	By:			12	Verbal Result:		0	No	Add'	Phone #:			

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

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rection Factor 45% -0.00

Corrected Temp. "C



September 10, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO

Sample ID: BH 24 - 34 0' (H245374-01)

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	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keine

S-04



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

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH 24 - 34 1' (H245374-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	137	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact 24E- 00670 Sample Received By: Project Number: Alyssa Parras

Project Location: XTO

Sample ID: BH 24 - 34 1.5' (H245374-03)

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	09/06/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/06/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	133 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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S-04



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

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 35 0' (H245374-04)

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2024	ND	1.73	86.5	2.00	12.9	
Toluene*	<0.050	0.050	09/07/2024	ND	1.78	89.2	2.00	14.0	
Ethylbenzene*	<0.050	0.050	09/07/2024	ND	1.85	92.6	2.00	14.7	
Total Xylenes*	<0.150	0.150	09/07/2024	ND	5.68	94.7	6.00	15.8	
Total BTEX	<0.300	0.300	09/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	151	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	194	97.1	200	2.33	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	192	96.1	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 35 1' (H245374-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	113 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 36 0' (H245374-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/09/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Reported: 09/10/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/04/2024

Sampling Type: Soil

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

Sample ID: BH 24 - 36 1' (H245374-07)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil
Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH 24 - 37 0' (H245374-08)

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	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Reported:

09/10/2024

Project Name: PLU 25 BRUSHY DRAW WEST Project Number: 24E- 00670

Project Location: XTO Sampling Date: 09/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH 24 - 37 1' (H245374-09)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24 - 37 1.5' (H245374-10)

mg/kg

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	115 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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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.

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Sample I.D. Sample I.D.	Sample I.D.	Sample I.D.	me: PLU 25 Brush cation: ame: L. Pullman.	Phone #: 575.725.5001	Boyd Driv	Project Manager: Sally Carttar	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)
Time: 2.4 Received By: Date: 9.5.30 Old	e 06:00 Recei	ider by Cardinal, regardless of whi	Project Owner: Amy Ruth Project Owner: Amy Ruth O C I C I C I C I C I C I C I C I C I C	Zip: 88220 Fax #:			rect Bill to XTO Ene
	ved By:	Received By:	Amy Ruth Amy Ru				rgy, Inc.)
2		CON	OIL SLUDGE OTHER: Phone Fax #: ACID/BASE: PRES	Attn: A	Compa	P.O. #:	
			City: Carlsbad State: NM Zip: 88 Phone #: 432-661-0571 Fax #: PRESERV. SAMPLING G ID THER 09.03.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 09.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24 109.04.24	Attn: Amy Ruth	Company: XTO Energy, Inc.		BILL TO
No.	REMARKS: Direct Bill to XT nAPP2408553359,	Verbal Result: ☐ Yes All Results are emailed. Pie Sally Carttar (SCarttar@ver REMARKS: Direct Bill to XI	88220 571 TIME TIME 3.24 9:40 3.24 9:55 4.24 10:30 4.24 10:35 4.24 10:35 4.24 11:05 4.24 11:05 4.24 11:15		, Inc.		
	ect Bill t	☐ Yes emailed. Carttar@v	BTEX (8021)				
	o XTO E	S □ No Please pro pvertexreso o XTO Ene	TPH:8015D(GRO / DRO / MI	RO)			
	nergy, Inc., Co	□ No Add'i Pho sase provide Email address: texresource.com), Lakin Pul TO Energy, Inc., Cost Center	Chloride			AWA	VNV
	O Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069,	Verbal Result: □ Yes □ No Add'! Phone #: All Results are emailed. Please provide Email address: Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657068.	that the determined varieties and of the section and the secti			ANALIGIO REGOESI	AI VOID DECLIFOR

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



October 29, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 10/28/24 12:02.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 10/28/2024 Reported: 10/29/2024

PLU 25 BRUSHY DRAW WEST

Project Number: 24E-00670

Project Location: XTO

Project Name:

Sampling Date: 10/26/2024

Sampling Type: Soil

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

Sample ID: BH 24-04 3.5' (H246537-01)

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	10/28/2024	ND	2.16	108	2.00	3.27	
Toluene*	<0.050	0.050	10/28/2024	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	10/28/2024	ND	2.11	106	2.00	0.934	
Total Xylenes*	<0.150	0.150	10/28/2024	ND	6.28	105	6.00	1.03	
Total BTEX	<0.300	0.300	10/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	10/29/2024	ND	464	116	400	3.51	
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	10/28/2024	ND	233	116	200	6.62	
DRO >C10-C28*	<10.0	10.0	10/28/2024	ND	243	122	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	10/28/2024	ND					
Surrogate: 1-Chlorooctane	107 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 10/28/2024 Sampling Date: 10/26/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24-04 5' (H246537-02)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2024	ND	2.16	108	2.00	3.27	
Toluene*	<0.050	0.050	10/28/2024	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	10/28/2024	ND	2.11	106	2.00	0.934	
Total Xylenes*	<0.150	0.150	10/28/2024	ND	6.28	105	6.00	1.03	
Total BTEX	<0.300	0.300	10/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	64.0	16.0	10/29/2024	ND	464	116	400	3.51	
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	10/28/2024	ND	233	116	200	6.62	
DRO >C10-C28*	<10.0	10.0	10/28/2024	ND	243	122	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	10/28/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene

S-04



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

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 10/28/2024 Sampling Date: 10/26/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH 24-29 4' (H246537-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2024	ND	2.16	108	2.00	3.27	
Toluene*	<0.050	0.050	10/28/2024	ND	2.10	105	2.00	2.10	GC-NC
Ethylbenzene*	0.284	0.050	10/28/2024	ND	2.11	106	2.00	0.934	GC-NC1
Total Xylenes*	2.97	0.150	10/28/2024	ND	6.28	105	6.00	1.03	
Total BTEX	3.26	0.300	10/28/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	184	% 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	1010	16.0	10/29/2024	ND	464	116	400	3.51	
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*	150	10.0	10/28/2024	ND	233	116	200	6.62	
DRO >C10-C28*	1380	10.0	10/28/2024	ND	243	122	200	0.604	
EXT DRO >C28-C36	151	10.0	10/28/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 10/28/2024 Sampling Date: 10/26/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH 24-29 6' (H246537-04)

BTEX 8021B

DILX OUZID	ıııg,	ng .	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2024	ND	2.16	108	2.00	3.27	
Toluene*	<0.050	0.050	10/28/2024	ND	2.10	105	2.00	2.10	
Ethylbenzene*	<0.050	0.050	10/28/2024	ND	2.11	106	2.00	0.934	
Total Xylenes*	<0.150	0.150	10/28/2024	ND	6.28	105	6.00	1.03	
Total BTEX	<0.300	0.300	10/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/29/2024	ND	464	116	400	3.51	
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	10/28/2024	ND	233	116	200	6.62	
DRO >C10-C28*	<10.0	10.0	10/28/2024	ND	243	122	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	10/28/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 10/28/2024 Sampling Date: 10/26/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH 24-29 8' (H246537-05)

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	10/28/2024	ND	2.23	112	2.00	4.18	
Toluene*	<0.050	0.050	10/28/2024	ND	2.33	117	2.00	3.16	
Ethylbenzene*	<0.050	0.050	10/28/2024	ND	2.29	114	2.00	2.58	
Total Xylenes*	<0.150	0.150	10/28/2024	ND	7.14	119	6.00	2.29	
Total BTEX	<0.300	0.300	10/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (P.	ID 106	% 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	144	16.0	10/29/2024	ND	464	116	400	3.51	
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	10/28/2024	ND	233	116	200	6.62	
DRO >C10-C28*	<10.0	10.0	10/28/2024	ND	243	122	200	0.604	
EXT DRO >C28-C36	<10.0	10.0	10/28/2024	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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

interfering compounds.

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

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Project Manager: Sally Carttar	Carttar	P.O.#:	70			ANALYSIS REQUEST
Bo		Company: XTO Energy, Inc	ergy, Inc.			
City: Carlsbad State: NM	Zip: 88220	Attn: Amy Ruth))	_
Phone #: 575.725.5001	Fax #:	Address: 3104 E. G	Greene St		IRC	
Project #: 24E-00670	Project Owner: Amy Ruth	City: Carlsbad			/ N	
Project Name: PLU 25 Brushy Draw West		State: NM Zip:	88220	1)	RO	
Project Location:		Phone #: 432-661-0571		802	/ D	de
Sampler Name: L. Pullman.		Fax#		(8	10	lori
FOR LAB USE DNLY		-		EX	GR	hl
Lab I.D.	MATRIX	PRESERV.	SAMPLING	ВТЕ	D(G	C
	OMP.			E	:80151	
Sample I.D.	G)RAB OR (C) CONTAINERS ROUNDWATE ASTEWATER DIL	UDGE [HER: [JO/BASE: [HER:			TPH:	
-	- X	C A	674 8:70	<	4	
BH24-04 5'	C 1 X	10.20.01	T	< >	1	< >
S BH24-29 4'	-	10.26.01	T	< >	×	×
BH24-29 6'	C 1 X	10.26.24	\top	< >	(>	2
C BH24-29 8'	-	10.00	T	4 3	1	*
		10.20.24	0.24 11:05	×	×	×
				\perp	\sqcup	H
				$^{+}$	1	+
PLEASE NOTE: (sathly and pumpus. Compare locally and other the site was wreath for any competition of the application sharkon. In the event shall Curdical be large the repotable or effects for the sharkond of the register sharkond of the shark of the	irry claim acturity whether all or contemporarish dans, under by Cardinal, regarded.	heads in contect or on; well are missed to the ancient pulls the closer for the unexpect, will catern a rounding those for reply splits, including without in-faction, outsides in himmatiscus, based state, or looks of positis secured by clear, its subsidiaries, offers of whether such clear is based upon any of the above stated washing or otherwise.	salms including those for regular correct by clent, its subsidences.	moe and any other	Offer salcon	whatsoever
	Received By:		Verbal Result:	□ Yes	N	0
Relinquished By:	Date St. St. Received By:		Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), permain@vertexresource.com REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2401657060	arttar@ iresource	vertexre	source.c
	-	-				
her	Corrected Temp. °C & U Cool Intact Cool Integral	tion CHECKED BY: (Initials)	Rush 24hr	Standard Cost Intact		Bacteria (oréy) Sample Observed Tamp. "C
TOTAL AAN IS SELECTION	\$\infty \(\sigma \)	F	Correction Factor - 05°C - C	Bo-050	100	1

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





September 10, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/05/24 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Reported: 09/10/2024

Project Name: PLU 25 BRUSHY DRAW WEST

mg/kg

Project Number: 23E-00670

Project Location: XTO

Sampling Date: 09/03/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 01 0.5' (H245377-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	u 2 y . 3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/03/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 23E-00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 02 0.5' (H245377-02)

mg/kg

BTEX 8021B

DILX GOZID	ıııg,	Kg .	Alluly20	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	125 %	% 48.2-13 ²	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-148	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 23E-00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 03 0.5' (H245377-03)

mg/kg

BTEX 8021B

	9/	9	7	7: - 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 23E-00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 04 0.5' (H245377-04)

mg/kg

BTEX 8021B

DILX GOZID	ıııg,	Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	121 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Reported: 09/10/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 23E-00670

Project Location: XTO Sampling Date: 09/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BS 24 - 05 0.5' (H245377-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6500	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Reported: 09/10/2024

PLU 25 BRUSHY DRAW WEST

mg/kg

Project Name: PLU 25 BRU Project Number: 23E-00670

Project Location: XTO

Sampling Date: 09/04/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 06 0.5' (H245377-06)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7500	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/05/2024 Sampling Date: 09/04/2024

Reported: 09/10/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 23E-00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 07 0.5' (H245377-07)

mg/kg

BTEX 8021B

DILX OUZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2024	ND	1.50	75.2	2.00	20.5	
Toluene*	<0.050	0.050	09/06/2024	ND	1.42	70.9	2.00	20.0	
Ethylbenzene*	<0.050	0.050	09/06/2024	ND	1.46	72.8	2.00	19.9	
Total Xylenes*	<0.150	0.150	09/06/2024	ND	4.31	71.8	6.00	19.8	
Total BTEX	<0.300	0.300	09/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/09/2024	ND	400	100	400	3.92	
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	09/06/2024	ND	193	96.3	200	0.474	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	186	93.0	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Marine Variate Re	(5/3) 393-2320 FAX (3/3) 393-2770 Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	N XTO Ene	ray.	nc.)	1			٦		BILL	10					ANAL	YSIS	ANALYSIS REQUEST	EST
ompany value: vertex v	coording on the same		1	1				D	*										
Project Manager: Sally Caritar	rttar							Com	pan	y: XTO	Company: XTO Energy, Inc.	24							
Address: State: NM	NM Zip: 88220	20						Attn	: Am	Attn: Amy Ruth				(O)					
Phone #:	575.725.5001	Fax #:						Add	ress	3104	Address: 3104 E. Greene St	#		MR					
Project #: 24F-00670		Project Owner: Amy Ruth	Amy	Ruth				City	Car	City: Carlsbad				0/					
Project Name: PLU 25 Brushy Draw West								State:		NM Z	Zip: 8	88220)21	DR	le				
Project Location:								Pho	ne #	Phone #: 432-661-0571	31-0571		(80	0/	orio				
Campler Name: Pullman	D							Fax #	*				EX	GR	hl				
die. r.		-	1	1	2	MATRIX		-	PRESERV.	ERV.	SAMPLING	NG	зті	D(C	(
Lab I.D.		MP.				\dashv							В	:80151					
lastran	Sample I.D.	G)RAB OR (C)OM	CONTAINERS	GROUNDWATER	VASTEWATER SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME		TPH:					
BS24-	BS24-01 0.5'	0	-			X					09.03.24	14:00	×	×	×	T	t		
7 BS24-02 0.5	02 0.5'	0	-			×					09.03.24	15:45	×	×	×		t		
-	03 0.5'	С	_			X					09.04.24	13:35	×	×	×	T	t		
U BS24-04 0.5	04 0.5'	С	_			×					09.04.24	13:40	×	×	×	T	t		
	BS24-05 0.5'	0	-			×					09.04.24	13:45	×	×	. >	Ť	+		
/ BS24-	BS24-06 0.5'	C	-			×					09.04.24	13:50	×		. >	Ť	+		
7 BS24-	BS24-07 0.5'	0	-			×					09.04.24	13:35	>	>	1	T	\dagger	1	
PLEASE 90'TE: Liability and Damages. Cardin completion of the applicable service. In 191	rdinal te lable for i	ody for any claim arrang whether based noderate of consequents of manages.	including including	ostact or tot, shall be in using without imitation	Out to it	and open	on any o	amount peed by interruptions.	De Cieri	lty the and site, or loss o aid reasons.	See by the emblyous, All claims in of use, or local of profits incurred by stated reasons or otherwise.	duding those for neglig- plant, its subodiants.	ries,	d any other	STATE OF THE STATE	500 000	8	walled unless	is musee in writing and molecule by Cardinal within 30 days
Relinquished By:		Date: 1 Received By:	eceiv	ed B	2							Verbal Result: ☐ Yes ☐ No Add'l Pho All Results are emailed. Please provide Email address: Sally Carttar (\$Carttar@vertexresource.com), Lakin Pul	It: Ire email (SCartt	Yes led. Ple ar@vert	□ No ase pro	vide Em urce.con	Add' ail addr n), Lakir	Add'I Phone #: address: Lakin Pullman	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)
Relinquished By:	Pales 24		Received By:	B	7	6	D					REMARKS: Direct Bill to nAPP2408553359,	Direct 8 (3359,		O Ener	gy, Inc.,	Cost C	enter #: 21	XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. 10 22 Corrected Temp. 10 22	7.0.7	, C.		Sample Condition Cool Intact Year 2 Year No No	Intact	ditio	3		CHECKED BY: (Initials)	ED BY: als)	Rush Cool into	Cool Intest	1 1 2	55	Bacteris (only) Sample and Temp. 'C	- 8	odition	Yes Conscisol famp. *C

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



September 17, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:51.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Project Name:

Sampling Date: 09/09/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 40 0.5' (H245517-01)

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	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/11/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 41 0.5' (H245517-02)

R1EX 8051R	mg,	кg	Analyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID 94.8 % 71.5-134

mg/	/kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
12200	16.0	09/13/2024	ND	400	100	400	7.69	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
<10.0	10.0	09/13/2024	ND					
	Result 12200 mg/ Result <10.0 <10.0	12200 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0	Result Reporting Limit Analyzed 12200 16.0 09/13/2024 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 12200 16.0 09/13/2024 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 12200 16.0 09/13/2024 ND 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 12200 16.0 09/13/2024 ND 400 100 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 12200 16.0 09/13/2024 ND 400 100 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 12200 16.0 09/13/2024 ND 400 100 400 7.69 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane 99.1 % 48.2-134
Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/11/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 42 0.5' (H245517-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/11/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 43 0.5' (H245517-04)

mg/kg

BTEX 8021B

DIEX OUZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	1.95	97.3	2.00	4.60	
Toluene*	<0.050	0.050	09/13/2024	ND	1.86	93.0	2.00	6.00	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	1.91	95.7	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	5.68	94.7	6.00	6.48	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	09/13/2024	ND	400	100	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	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	133	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	23.4	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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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

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Yeates Resources Services (523)

	Abytex wesoner	of 11:9) Services (B:11 to		XTO Energy Inc)	1 4	Č				B	BILL TO						SISA IVNV	200	200	100	1						
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1	2	State: NM	Zip: 8	88220	0			Att	B		Attn: Amy Roll	11 700.	_	_	0)							_				_	_
	5. 725. 5001	Fax #:						Ada	dress	2	Address: 3104 6 Greene	+5 2000	_	_	ηR	_						_				_	
Project #: 24	24E-00670	Project Owner:		Amy Roth	-			City	City: Carls bad	2	Pod 6		_		0/1	_						_				_	_
Project Name: PLV 25	52070	Brushy Draw West						Sta	State: NM	3	Zip: 88220	220	_	_	DR	_											
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Sampler Name:	Ardiew Ludvik	^				- 1		Fax #:	*	1			12		GF	2							_			_	_
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completion of the applicable ser affiliates or successors arising o	completion of the application service completion of the application service. In or event shall Cardinal be also affiliates or successors unking out of or related to the performance of the applications are considered to the performance of the applications of the appl	compliance of the applications exerce in one event shall be stated to recover intensity to any claim aroung shallow be abled to the amount paid by the claim for the ambigues. As calculation of the application service in one event shall Cardinal be stated for incidental or consequential damages, including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of use in the ambigues, and other profits including without instation, business interruptions, loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of use in the ambigues, and other profits including without instation, business interruptions, loss of use, or loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of use, or loss of profits including without instation, business interruptions, loss of use, or loss of use of use or loss of use or loss of use or loss of use of use or loss or loss of use or loss of use or loss of use or loss of use or loss or loss or loss of use or loss	ssed in contra ges, including less of wheth	ct or too an g without in her such of	all be limits nitation, b aim is bas	d to the au uniness a ed upon a	terruption of the	nt paid by the ruptions, loss of the above	clere for of use, stated in	the analor loss of	yses. All dialms in f profits incurred b or otherwise	arount pad by the cleer for the analyses. At claims including those for negligi- interruptions, loss of use; or loss of profits incurred by cleent its subsidiaries, vary of the above statud reasons or otherwise.	gigence at	of any other	Sause w	latsoever s	hall be dee	smed waw	of uniness	nade in w	nting and	TROOP!	ed by Cardin	al widin 3	30 days after	8	
Manager	The same of the sa	Time: 0700	Received By:	ed By:		5	2					Verbal Result: □ Yes □ No Add'I Pho All Results are emailed. Please provide Email address: § all y Cof↑γατ / Scar↑γατβυρελεντεκτε	e email	\8 ×	□ No	ovide E	es □ No Add'I Phone #: f. Please provide Email address: CAT ++ ar Susting For a large	Add'I Phone #:	one #:	-		:					
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Delivered By: (Circle One)	One)	Observed Temp. °C	5	Sa	Sample Condition	ondit	9	1	유	CKE	CHECKED BY:	irranound Time	Stand						et	c;dan	4: 5	APP	240	Incident #: nAPP 240 365 7069	7069		
Sampler - UPS - Bus - Other	- Other:	Corrected Temp. °C	ica		Cool Intact	No in contract	ğ		5	(Initials)		Turnaround Time: Stan	72 WC Cool Intact	# # #	Disserved Temp "C	teria (only)	Bacteria (only) Sample Condition of Temp. "C	ondition	lon Yes	2							
EODE OF									D			8000	100	-	(No No Corrected Temp. 'C	o Corr	ected Ter	op oc				_	

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

Page 7 of 7



September 19, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:55.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/17/2024 Sampling Date: 09/12/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: XTO

Sample ID: BS24 - 44 0.5' (H245635-01)

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	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	ND					
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	9800	16.0	09/18/2024	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	09/18/2024	ND	200	99.9	200	0.227	
DRO >C10-C28*	1530	10.0	09/18/2024	ND	203	101	200	0.147	QM-07
EXT DRO >C28-C36	295	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/17/2024 Sampling Date: 09/12/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS24 - 45 0.5' (H245635-02)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	10100	16.0	09/18/2024	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	09/18/2024	ND	200	99.9	200	0.227	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	101	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/17/2024 Sampling Date: 09/13/2024

Reported: 09/19/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO

Sample ID: BS24 - 46 0.5' (H245635-03)

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	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	4500	16.0	09/18/2024	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	09/18/2024	ND	200	99.9	200	0.227	
DRO >C10-C28*	91.7 10.0		09/18/2024	ND	203	101	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/17/2024 Reported: 09/19/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/13/2024

Sampling Type: Soil

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

Sample ID: BS24 - 47 0.5' (H245635-04)

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	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	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	176	16.0	09/18/2024	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	09/18/2024	ND	200	99.9	200	0.227	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	203	101	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



09/13/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/17/2024 Sampling Date:

Reported: 09/19/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Shalyn Rodriguez

Project Location: XTO

Sample ID: BS24 - 48 0.5' (H245635-05)

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	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	2520	16.0	09/18/2024	ND	416	104	400	8.00	
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	09/18/2024	ND	200	99.9	200	0.227	
DRO >C10-C28*	801	10.0	09/18/2024	ND	203	101	200	0.147	
EXT DRO >C28-C36	182	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By	Charles !	Relinquished By	affiliates or successors arising	PLEASE NOTE: Liability and Daniages completion of the applicable service					C	2	W	L	-		CUCLBU	MICIA			Lab I.D.	Sampler Name:	Project Location:	· ioject italie	Project Name:	Project#: 2 u c - 00670	Phone #: <7		Address: 2101	Project Manager:	Company Name:	
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emp	Date:	HSU	De CI-D-QU		2 R					0.5	0.5	0.5	0.5		120			I.D.			7		Dies as which Lenid	Draw Wax +	Project Owner:	Fax #:	State:NM				(575) 393-2326 FAX (575) 393-2476
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Sample Condition CCool Intact			scived By:	rices hereunder by Cardinal, regarders or winder about being a beginning open and	rang ehether based in contract or ton, shall be limited to the encural paid by the closer for the sursions, no serim in oncoming operated champers, including without invitation, business retirencing one paid once to close of profits incurred by client, its subsidiaries operated champers, including without invitation, business retirencing one of the above to client or difference.					×	*	*	-		*	OI SI O	THER:				MATRIX PRESERV.	Fax#:	Phone #:	State: NM	City: Carls bad	Address:	Attn: Amy Ruth	Company:	-		
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Page 8 of 8



September 17, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 13:51.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 08 0.5' (H245515-01)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	9400	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

Applyand By 14

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024

Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: BS 24 - 09 0.5' (H245515-02)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	9460	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 10 0.5' (H245515-03)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	7120	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 11 0.5' (H245515-04)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	9860	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 12 0.5' (H245515-05)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	6000	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 13 0.5' (H245515-06)

BTEX 8021B	mg/	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	5200	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 14 0.5' (H245515-07)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 15 0.5' (H245515-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	3560	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	79.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/05/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 16 0.5' (H245515-09)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	1070	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

mg/kg

Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/06/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 17 0.5' (H245515-10)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	1230	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 18 0.5' (H245515-11)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	1810	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	62.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.0	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact 24E- 00670 Sample Received By: Project Number: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 19 0.5' (H245515-12)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	672	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	63.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.6	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact 24E- 00670 Sample Received By: Project Number: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 20 0.5' (H245515-13)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	368	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 21 0.5' (H245515-14)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	528	16.0	09/13/2024	ND	416	104	400	3.92	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	76.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 22 0.5' (H245515-15)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/13/2024	ND	416	104	400	3.77	QM-07
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 23 0.5' (H245515-16)

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	09/13/2024	ND	2.15	108	2.00	6.51	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	6.67	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.17	108	2.00	6.67	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.73	112	6.00	4.82	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 24 0.5' (H245515-17)

mg/kg

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Project Name:

RTFY 8021R

Sampling Date: 09/06/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 25 0.5' (H245515-18)

B1EX 8021B	mg,	r Kg	Апатуге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 26 0.5' (H245515-19)

mg/kg

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact

Sample Received By: Project Number: 24E- 00670 Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 27 0.5' (H245515-20)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

Project Name: 24E- 00670 Project Number:

Project Location: XTO Sampling Date: 09/06/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BS 24 - 28 0.5' (H245515-21)

BTEX 8021B

	9/	9	7 7 = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	66.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 29 0.5' (H245515-22)

BTEX 8021B

DILX GOZID	mg/	ng .	Alldiyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	70.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.2	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO Sampling Date: 09/06/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BS 24 - 30 0.5' (H245515-23)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	68.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 31 0.5' (H245515-24)

BTEX 8021B

	91	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	09/13/2024	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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 32 0.5' (H245515-25)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

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09/06/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date:

Reported: 09/17/2024 Sampling Type: Soil
Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact

Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 33 0.5' (H245515-26)

BTEX 8021B

	91	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	190	95.1	200	0.185	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	178	88.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	59.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

09/17/2024 PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRUSI Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/06/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 34 0.5' (H245515-27)

BTEX 8021B

DILX GOZID	mg/ kg		Analyzea by: 511						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	62.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

PLU 25 BRUSHY DRAW WEST

mg/kg

Project Name: PLU 25 BRUSHY I Project Number: 24E- 00670

Project Location: XTO

BTEX 8021B

Sampling Date: 09/06/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 35 0.5' (H245515-28)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	68.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 36 0.5' (H245515-29)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 37 0.5' (H245515-30)

mg/kg

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Reported: 09/17/2024

Project Name: PLU 25 BRUSHY DRAW WEST

Project Number: 24E- 00670

Project Location: XTO

Sample ID: BS 24 - 38 0.5' (H245515-31)

RTFY 8021R

Sampling Date: 09/06/2024

Sampling Type: Soil

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

DILX COZID	iiig/	Ng .	Allulyze	a by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Fit II 4	0.050	0.050	00/10/0001		4.00	00.0	2.00	4.40	

Applyzod By: 14

Ethylbenzene* < 0.050 0.050 09/12/2024 ND 1.98 98.9 2.00 1.10 Total Xylenes* < 0.150 0.150 09/12/2024 ND 5.89 98.1 6.00 1.20 Total BTEX < 0.300 09/12/2024 0.300 ND

Surrogate: 4-Bromofluorobenzene (PID 94.9 % 71.5-134

Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134
Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact 24E- 00670 Sample Received By: Project Number: Alyssa Parras

Project Location: XTO

Sample ID: BS 24 - 39 0.5' (H245515-32)

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	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	09/13/2024	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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024

Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

RTFY 8021R

Sample ID: WS 24 - 01 0-0.5' (H245515-33)

31EX 8021B	mg/kg		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/12/2024 Sampling Date: 09/06/2024
Reported: 09/17/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: WS 24 - 02 0-0.5' (H245515-34)

3TEX 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	09/12/2024	ND	2.03	101	2.00	2.14	
Toluene*	<0.050	0.050	09/12/2024	ND	1.93	96.7	2.00	1.26	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.98	98.9	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.89	98.1	6.00	1.20	
Total BTEX	<0.300	0.300	09/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2024	ND	416	104	400	3.77	
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	09/13/2024	ND	187	93.5	200	1.51	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	184	91.8	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey & Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



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

The second freedome	company value: vertex resource services (pirect Bill to X10 Energy, Inc.)	(Direct Bill to X I	Ene	ergy,	Inc.								BILL TO					A	NAL	ANALYSIS REQUEST	REQU	UES:
Project Manager: Sally Carttar	ally Carttar									P.O. #:	#				\forall	-	4	4				
Address: 3101 Boyd Drive	Drive							- 1		Cor	mpa	ny:	Company: XTO Energy, Inc.	Inc.	_	_	_	_		_		
City: Carlsbad St	State: NM	Zip: 88220								Attr	7: A	my	Attn: Amy Ruth		_	0)	9)			_		
Phone #:	575.725.5001	Fax #:								Ado	dres	S: 3	Address: 3104 E. Greene St	ne St	_	MD	ik	_		_		
Project #: 24E-00670		Project Owner: Amy Ruth	vner:	Amy	Rut	3				City	0	City: Carlsbad	bad		_	. / N	7 10	_		_		
Project Name: PLU 2	Project Name: PLU 25 Brushy Draw West									State:	e.	Z	NM Zip:	88220	21)			_		_		
Project Location:									\perp	Pho	ЭПе	并	Phone #: 432-661-0571		802		_	ide		_		
Sampler Name: L. Pullman.	ullman.									Fax #:	*				X (_	_	hlor		_		
POR LABOR SOMEY					П	1_1	MATRIX] 	11	₩	RE	PRESERV.	H	SAMPLING	BTE	-	_	C		_		
	Sample I.D.		R (C)OMP.	INERS	WATER	ATER				E-		I F	\		1	FPH:8015	111.0013					
12.13515			(G)RAB OR	# CONTAIN	GROUNDWA	WASTEWAT	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:		OTHER:	DATE	TIME		ТР						
	BS24-08 0.5'		С	-		_	0	-	_	-	-	_	0		×	×	-	×	4	+		
7 BS	BS24-09 0.5'		C	-			×	-	4	-	4	-	09.05.24	\exists	×	×		×	4	+		
3 BS	BS24-10 0.5'		С	-			×	-	_	-	4	-	09.05.24		×	X	-	×	4	+		
H BS	BS24-11 0.5'		C	-			×	-		-	_	-	09.05.24		×	×	-	×	4	-		
S BS	BS24-12 0.5'		C	-			×	-		-	_	-	09.05.24		×	X	+	×		-		
G BS	BS24-13 0.5'		С	-			×	-		-		-	09.05.24		×	×	-	×	4	+		
7 BS	BS24-14 0.5'		С	-			×	-		-	_	-	09.05.24	9:15	×	×	-	×	4	+		
S BS	BS24-15 0.5'		С	1			×	-				-	09.05.24		×	×	-	×	4	+		
9 BS	BS24-16 0.5'		С	1			×	Н		\vdash		-	09.05.24		X	×	-		4	-		
10 BS	BS24-17 0.5'	And promise control rates on the control rates of the control rates of the control rates on the control rate of the control rates on the control rate of the control rates on the control rate of th	С	-	1		×	Н		H			09.06.24	8:3		×	Н	H	Н	H	Ц	
Implation of the applicable service.	completion of the applicable service. In no every shall Cardinal be abble for incidental or consequented desirings. Incidental or consequented desirings, including which of make including and of makes to the performance of services between the services between the services or consequented desirings, including which of makes to take the performance of services between the services by Cardinal regardless of whether such came is based upon any of the above, stated	er prodestal or consequently during una micrology although the base is ness on a source plan of year of the prodestal or consequently during the micrology although the base in prodesta she myglent, to so of use loss terminate by Cardinal regardless of whether such claim is blasted upon any of the above stated	ges, inch Sess of w	officer with the same of the s	without in	am ab	Property of the party of the pa	os inte	y of the	os, los abora	a state	d 7865	or loss of profits incurred by client, its subsidiaries reasons or otherwise	by dient, its subsidiaries	es.	and any of	er petter	nation at	nali be de	emed wave	60 offers	8
Relinquisher By:			Received By:	eived	By:									Verbal Result: ☐ Yes All Results are emailed. P	t: D	☐ Yes nailed. P	□ No	rovide i	mail ac	□ No Add'I Phone #:	me #:	
MOUNT-INDIA		7:00		5	B	7	600	U						Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)	(SCart	tar@ve	rtexres	ource.c	om), La	kin Pul	lman (L	Lpulln
Relinquished By:		Time:2	Received By:	eived	By							1		REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069	Direct I	Bill to	(TO En	argy, in	c., Cost	Center	#: 219	918510
Delivered By: (Circle One)		Observed Temp. °C -O	3.0	1	Sa	Sample Condition	Cor	ditio	3		0	핆	CHECKED BY:	Turnaround Time:	D gran	tandard	9	Bacteria (only) Sam	Sample C	ondition		
omplet or or or our			1.16	(Cool Intact	Intact	8. 14				9	(Initials)	×	8 4	H	Observed Temp.	amp, 10				
					Г	1		- 2				5	J	Correction Factor 100 C	0.00	0.	6.6				0 % C	We Cornected Territo "C

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

1/4



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

Company Name:	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	urce Services (Direct Bill to XTO Ene	TO En	ergy	Inc							В	BILL TO					A	ANALYSIS REQUEST	S	EQ	E	TS				
Project Manager: Sally Carttar	Sally Carttar									P.C	P.O. #:				+	+	+	-	-	-		\dashv	-				+
Address: 3101 Boyd Drive	yd Drive									Co	g g	iny: X	Company: XTO Energy, Inc	, Inc.		_	_	_		_			_				_
City: Carlsbad	State: NM	Zip: 88220								Att	n: A	Attn: Amy Ruth	uth		_	0)		_	_	_							_
Phone #:	575.725.5001	Fax #	79							Ad	dres	S: 31	Address: 3104 E. Greene St	ne St	_	1120		_		_							_
Project #: 24E-00670	670	Project Owner: Amy Ruth	wner	Am	y Ru	\$				압	5	City: Carlsbad	ad		_) / N	7 34	_	_								_
Project Name: PL	Project Name: PLU 25 Brushy Draw West									State:	e:	X	Zip:	88220	(1)	_		_	_	_			_				_
Project Location:										Ph	one	# 43	Phone #: 432-661-0571	00000	(802		ride	iue		_			_				_
Sampler Name: L.	Pullman.									Fax #	#				X (_	101	_	_			_				_
A TWO 3SIT BINT BOS			+	1	1		T A)		- 3	9	CEDV	1		EX	_		CII		_			_				_
Lab I.D.			-		T		MATRIX	R		7_	PRE	PRESERV.	t	SAMPLING	BT		_	_	_	_							
	Sample I.D.)RAB OR (C)OMP.	CONTAINERS	COUNDWATER	ASTEWATER	IL.		UDGE	HER:	ID/BASE:	HER:				TPH:801											
=	BS24-18 0.5'		0	_	-	-	X	(5	$\overline{}$	1	\rightarrow	09.06.24	4 8:35	×	×	×	7	+	+		\top	+			-	+
17	BS24-19 0.5'		C	_	7		×					-	09.06.24		×	×	-	1	+	+		\forall	+			-	+
13	BS24-20 0.5'		C	_			×			4		+	09.06.24	\neg	X	×	X	1	+	+		\forall	+			+	+
hi	BS24-21 0.5'		С	1			X					-	09.06.24		×	X	X		-	-			+			-	+
7	BS24-22 0.5'		С	-			×					-	09.06.24		×	X	X		+	+			+	4			+
	BS24-23 0.5'		С	-			×						09.06.24		×	×	X		-	+	-	1	+	4		-	+
	BS24-24 0.5'		C	-			×					\dashv	09.06.24		×	X	X		+	+			-	1		+	+
81	BS24-25 0.5'		С	_			X						09.06.24		×	×	×		+	+		7	+			+	+
	BS24-26 0.5'		С	_			×			_			09.06.24		X	X	X		-	+			-			-	+
PLEASE NOTE: LIBBILY AND DATE	BS24-27 0.5' LEASE MOTE: Listedly and Carriages. Candries's ancidity and clearly ancident representation of the	Of the any cases are	C I	-	1 Income	50 Mg	X	do aki) o	d parts	ad by 8	8	100 700	09.06.24	X 09.06.24 9:20	X	X Y	X Same	attoquer .	740 040	Mark Da	United B	made	ir writing	and mo	ceived by Cardi	Sinal within 30 days	100
Dalinguis Mad B.		Date:					8	1	1 4	1 80	1	90 000	activation to to														
John Mark	2	11m67.00		Neceived by:		5.	-	8						verbal Result: U 185 U NO Add'l Phone #: All Results are emailed. Please provide Email address: Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)	are ema	illed. Pi	ease pr	ovide E	mail add	address: Lakin Pullman	man man	CLpu	Ilman	gvert	exresourc	ce.com)	
Relinquished By:		Time: 19-au	Rec	Received By:	d B	7					18			REMARKS: Direct Bill to	Direct		TO En	ergy, inc	Cost (Center	# 21	9188	51001,	Incid	ent #: nAF	XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069	69
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. *C - 0.6*C	- 9	C.	ПО.	Sample Condition Cool Intact	le Conc	act ondit	9			(Ini	CHECKED BY: (Initials)	Turnaround Time:	Daymard		Observed Temp. 'C	cleria jorily)	Bacteria (only) Sample Condition ed Temp. 1C	editor	: 1						
						No No		8			A	7	0	Correction Factor 4-5°C	ctor 46		0.60	(₹ #	Correcte	ected Temp.	ď		

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





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Project Manager: Sally Carttar	: Sally Carttar	Project Manager: Sally Carttar	gy,	nc.)				_	P.O. #	*	03	BILL TO		1	1	1	A	ALYS	ANALYSIS REQUEST	EQUE
Address: 3101 Boyd Drive	oyd Drive							_	Con	par	ny: X	Company: XTO Energy, Inc.	inc.	_					_	_
City: Carlsbad	State: NM	Zip: 88220						_	th	A	Attn: Amy Ruth	uth		_	O)			_		_
Phone #:	575.725.5001	Fax #:							dd	ress	5: 31	Address: 3104 E. Greene	1S e	_	1R			_		_
Project #: 24E-00670)670	Project Owner: Army Ruth	ymy	Rut	-				ğ	Ca	City: Carlsbad	ad		_) / N			_	_	_
Project Name: P	Project Name: PLU 25 Brushy Draw West							/0	State:		MN	Zip:	88220	21)	RC		_			
Project Location:				-1				7	NO.	ne #	43	Phone #: 432-661-0571		802	/ D	ide		_		_
Sampler Name: L. Pullman.	Pullman.					- 1		7	Fax #:	.#				X (RO	hlor		_		
FOR LAND SECURITY POR					8	MATRIX	×	1	P	RES	PRESERV.	SAMPLING	LING	TE)(G	CI		_	_	
Lab I.D.		ΔP.			_	\neg	\dashv	-	-	-		1	in a	B	015D					
\$12512#	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER:	ACID/BASE		OTHER:	DATE	TIME		TPH:80					
2	BS24-28 0.5'	С	-				-	Н	$\overline{}$		-	09.06.24	9:25	X	×	×	П		H	H
22	BS24-29 0.5'	С	-			×		-		-		09.06.24	9:30	×	×	×	1	+	+	+
22	BS24-30 0.5'	С	-			×		\vdash		\dashv		09.06.24	14:00	×	X	×	1	+	+	+
24	BS24-31 0.5'	С	-			×		-		-		09.06.24	14:05	×	×	×		+	+	+
25	BS24-32 0.5'	С	-			X		-		\dashv		09.06.24	14:10	×	×	×	1	+	+	+
240	BS24-33 0.5'	С	-			×		-		-		09.06.24	14:15	×	×	×		+	+	+
25	BS24-34 0.5'	С	-			×	\exists	-		-		09.06.24	14:20	×	×	×		+	+	+
28	BS24-35 0.5'	С	-			×		\dashv		-	7	09.06.24	14:25	×	×	×	1	+	+	+
79	BS24-36 0.5'	C	-			×				-		09.06.24	14:30	×	×	×	1	+	+	+
PLEASE WOTE: Listify and Demogra- comparison of the applicable service.	24-37 0.5' Dardraf's liability and client's highly and client's highly and client in no event shall Cardinal or reliabled to the performance.	С 1 X 09,06. Каксыная інтовоў ізгану сівіть агімісу анастінь сівыка і коспісаст ост, shall be intelled to the amount pack by the citier for the analogue, ald dis be albelle for incidental or consequential damagas, i rickulatny antitous finitiation, businessi inhimitations, isos of use, or loss of profits экология об экипеські "экентибан" by Cardinal, inspurdessa of whether such calm is beared upon any of the above stated reasons or otherwise.	apple of page	I set or lort, shall be ng without limitation their such claim is	to limit tation, it	X buding the budiness	a minor	of the ab	by the	The client for loss of use, over stailed	ortio a corios reason	09,06,24 the analyses All claims in or loss of profits incurred b reasons or otherwise.	09.06.24 15:10 Pre-clier for the analyses. All claims including those for miglet less of use, or loss of posits incurred by clear, its subsequences bow stated reasons or otherwise.	X	X	X	on air shall	De deeme	d seed of	uniess made
Relinquished By:		Times (10)	ved	By:				- 1			- 1		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: Sally Carttar (\$Carttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)	e emai	☐ Yes ☐ nailed. Plea irttar@verte	□ No exresou	ide Em	Add all addi), Laki	Add'l Phone #: address: Lakin Pullman	an (Lpu
Relinquished By:		Pake Pake Received By	ved	B.Y.	8	0							REMARKS: Direct Bill to	irect 8	3II to XTC) Energ	y, Inc.,	Cost C	XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069	219185
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Temp. "C. O. S.C.		Samp Cool		le Cond Intact	dition	- 1		2	(Init	CHECKED BY: (Initials)	Turnsmond Dena:	Standard Cool Intact	promp.	Bacteria jon Observed Temp. 10	p. d (year) S	Bacteria (only) Sample Condition of Temp. 'C	dittor	
SUCHECIS	0.0 1.0/0/0/04		-	[7			-	A	U		Correction Factor	Q. 12:24	0.6.	6				No Corrected ferrigo. "C
FORM-DOS	R 3 2 40/07/24									ł				I		I	١	1		

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





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company Name: Vert	company name: vertex Resource Services (Direct Bill to XTO Energy, Inc.)	(Direct Bill to XT)) Ener	gy, in	5						B	BILL TO					A	ANALYSIS REQUEST	S Z	EOL	FST						
Project Manager: Sally Carttar	y Carttar								P.O. #:	*		İ		+		+	1	-	1	1	10	1	+	-		1	1
Address: 3101 Boyd Drive	rive								Con	npan	y: X	Company: XTO Energy, Inc	Inc.	4		-		_					_				
Isbad	State: NM	Zip: 88220							Attn: Amy Ruth	AT	ly R	uth		_))				_								
Phone #:	575,725,5001	Fax #:							Add	ress	: 310	Address: 3104 E. Greene St	e St		1RC	_											
Project #: 24E-00670		Project Owner: Amy Ruth	mer: A	lmy R	uth				City: Carlsbad	Car	risba	۵		_	/ N			_						_			
Project Name: PLU 25 Brushy Draw West	Brushy Draw West								State:		Z	NM Zip:	00000	1)	_												
Project Location:								_	Phor	ne #	432	Phone #: 432-661-0571	07700	802	_	_											
Sampler Name: L. Pullman.	lman.							1	Fax #:	#				(_	lori	_	_						_			
FOR LAB USE ONLY			1	4		u A	VIG.	L	2 5	3				EX	-	_								_			
Lab I.D.				_	-	MATRIX	- R		70	PRESERV.	RV.	SAMPLING	LING	BTI		_								_			
	Sample I.D.		AB OR (C)OMP.	UNDWATER	TEWATER		vor.		BASE:	COOL					TPH:8015												
389R#						SOIL	OIL	SLUC	CID	CE /	THE	DATE	TIME														
3 BS2	BS24-38 0.5'		C	-	-		_	4	_	10		09 06 24	10.10	<		,	T	+	T	1				-		1	1
32 BS2	BS24-39 0.5'		C	-	+	×	1	+	+	+		00 06 34	15.70	< >	4 2	. >	T	+	T	1				-			1
SW WS:	WS24-01 0-0.5'		0	+	+	× ;	-	+	+	+	T	00.06.24	07:51	. >	. >	×	T	+	T	-				-		1	
21 WS	15 0 0 CU PCSM		2 0	+	+	1	Ŧ	+	t	t	T	09.00.24	15:00	×	X	X								-			
04	2-0-0 20-0-2		C	-		×	-	+	+	+	1	09.06.24	15:05	×	×	×				\perp			\forall	++	H		1 1
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anica pod of	in no sees or all Customa de liable for incidendal or compagnateal demages, including without lessation, business semantiques de liable for incidendal or compagnateal demages, including without lessation, business semantiques desired was considered by deet, its satisfaction or realight to the prefixmance of sencess temperature by deet, its satisfaction or realight to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature by deet, its satisfaction or realized to the prefixmance of sencess temperature between the prefixmance of sencess temperature by deet, it is satisfaction to the prefixmance of sencess temperature by the pre	odental or consequental damages. Thereunder by Cardinal regardess	es, include ess of whe	ding without limitation wither such claim is to	limitatio claim is	n business	ess inte	of the	2 025 2 025	of use, or it	Succession of the second	anayes, ve cams incloding those for negligance and any other bas of poets incurred by dient, its subsidiaries; ports or otherwise.	dent, its subsidiare	T de sou de	nd any other o	acce what	on were stated to	use whatco yer shall be deemed waived unless made	ta bavies	1654 mil	8	ing and i	received by 0	Cardina	al weeks 30	30 days efte	9.
Jahr Landy		1001 1566	Received By:	ceived By:		8	0					60 NIZ	Verbal Result:	e email	☐ Yes ☐ Plea arttar@verte	□ No texresour	de Ema	Add'l Phone #: il address: Lakin Pullman	ohone ss: ullm:	# (Lp	ullmar	1@ve	rtexreso	эшгсе.	com)	- 11	- 11
neiinquisned by:		Time: 357	Receiv	/ed B								20	REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2191851001, Incident #: nAPP2403657069	irect B	III to XTC	Energ)	, Inc., C	ost Cen	ter#	2191	351001	. Inci	dent#: n	APP	24036	57	5
Sampler - UPS - Bus - Other	Ì	Corrected Temp. °C 0.5 C	Coi	D.0.00	Sample Condition Cool Intact	Intac	nditio	3		25	ECKED (Initials)	BY:	Turnwound Time	Standard Cool Intact	Sangard	Bacteria jor erved Temp. 10	Bacteria (only) Sample ed Temp. "C	ple Condition	3								
				_	□ No □ No		8			À	2)	0 =	Thermometer ID #113 Correction Factor -0.5°C	#113 -0.5°C				_	□Yes□ Yes	1							

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

4/4



September 24, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: PLU 25 BRUSHY DRAW WEST

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 13:15.

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

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

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

Accreditation applies to public drinking water matrices.

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 SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Reported: 09/24/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/17/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 03 0-0.5' (H245697-01)

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	09/20/2024	ND	2.28	114	2.00	0.102	
Toluene*	<0.050	0.050	09/20/2024	ND	2.22	111	2.00	3.27	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.25	113	2.00	4.04	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.78	113	6.00	4.14	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/17/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 49 0.5' (H245697-02)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/17/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 04 0-0.5' (H245697-03)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Reported: 09/24/2024

Project Name: PLU 25 BRUSHY DRAW WEST Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/18/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 55 0.5' (H245697-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	50.5	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 56 0.5' (H245697-05)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	975	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	138	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	112 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: BS 24 - 57 0.5' (H245697-06)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: BS 24 - 58 0.5' (H245697-07)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 59 0.5' (H245697-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	< 0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	109 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	6 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Reported: 09/24/2024

PLU 25 BRUSHY DRAW WEST

Project Name: PLU 25 BRU
Project Number: 24E- 00670

Project Location: XTO

Sampling Date: 09/18/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 60 0.5' (H245697-09)

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 06 0-0.5' (H245697-10)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/17/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 05 0-0.5' (H245697-11)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E- 00670 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 50 0.5' (H245697-12)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 51 0.5' (H245697-13)

mg/kg

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	09/20/2024	ND	448	112	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	09/19/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: BS 24 - 52 0.5' (H245697-14)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	09/20/2024	ND	448	112	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	09/20/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: BS 24 - 53 0.5' (H245697-15)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/20/2024	ND	448	112	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	09/20/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 09/19/2024 Sampling Date: 09/18/2024

Reported: 09/24/2024 Sampling Type: Soil

Project Name: PLU 25 BRUSHY DRAW WEST Sampling Condition: Cool & Intact
Project Number: 24E- 00670 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 54 0.5' (H245697-16)

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	09/20/2024	ND	2.27	113	2.00	0.0930	
Toluene*	<0.050	0.050	09/20/2024	ND	2.31	116	2.00	2.12	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.32	116	2.00	3.70	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.05	118	6.00	3.00	
Total BTEX	<0.300	0.300	09/20/2024	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	592	16.0	09/20/2024	ND	400	100	400	3.92	
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	09/20/2024	ND	208	104	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	205	103	200	0.0439	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



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

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	Relinquished By	completion of the applicable service. In no event shall Cardinal be lable affiliates or successors arising out of or related to the performance of se	PLEASE NOTE: Lability and Damages: Cardinals live in	9 8324- 60	8 8524-59		6 BSZ4- 57	5 8324-56	4 BS24-55	3 W524-04	2 85 24-49	50-h2 SM	H245167	l ah I D	FOR LAB USE ONLY	Sampler Name: A I	Project Location:	Project Name: PLD 75 Pc	Project #: 24 E - 80 6 70	Phone #: 575 775 5061	City: Casts had	Address: 3101 D	Project Manager: C. N. Cortes Setuites (Bill to X) o
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(Initials)	CHECKED BY: 1m	D	Malabor		paid by the claims for the analyses. All claims including those for negli- fions, loss of use, or loss of profits accurred by claim in a second						9.18.24	4		9.17.24	O A	OTHER: CID/BASE RE/COOL THER:		Fax #:	Phone #: 427 661 05-71	State: NM Zip: 88 220	City: Carlshad	Address: 3104 E Greene	Attn: Ary Ruth	Company: X 10 En	P.O. #:	BILL TO
Russi Cool Infact Thermometer ID 1713	naround Time: Standard	REMARKS: Direct	Sally car +tar (scor		uding those for negligence at	-	1025	1020	5101	5001	1000	1150	1100	× 050	TIME	BTex (BOZI	1		14.30	226		ene St		Energy Inc		
		of 11:4	led. Please pr	□ Yes □ No	nd any other cause w								-	×		PH: 80150 (6	FR	0/1	DR	0/1	nRi)			
THUE	Incident	KTO Energy Inc (OST CENTER # 219 105 100)	All Results are emailed. Please provide Email address: Solly Carthar (SCOITTAN Divertor resource.com) Alvalu'K Bironne	O Add'l Phone 4:	whatsoever shall be deemed waved unless made in water and									×		Chloride										ANALYSIS REQUEST



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

	1111		6				FORM-006 R 3.2 10/07/21
Sea Clear	to alabe	. 1	Correction Factor -0.5°C	Con			
-	Observed Temp. °C	Cool Intact C	nometer ID	Rush Then		11	
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1,	W. B. ACLACK	J. Carl	MARKS:	RE RE	Received By:	Date:	Kelinquished By
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s anial or deemed waived unless roade in writing and received by Cardinal within 30 days after	SASTRETAL MODES		mt, th subsidiaries.	90	is of whether such claim is based upon any of the a	of services hereunder by Cardinal, regardle	The second sensing our of or related to the performance of services hareunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.
		- And and on	including those for negligence	3	ed in contract or just, shall be limited to the amount paid by	suble for incidental or consequental damages incide	completion of the applicable service. In no event shall Cardina be table for incidental or consequental
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	0/(26	State: NM Zip: 88226		y Drav West	Project Location:
	OR	_		City: Carlsbad	HMY KUTS	2	Project Name: 9111 3 - 0
	٥/n		ene St.	Address: 3104 & Greene		Project Owner	Project #: 24 F - Mh - 70
	1Ro			Attn: Amy Ruth	NIN 40: 88220	Fax#: NM	Phone #: 575 775 5001
)	_	y Inc	Company: XTO Energy Inc			City: Calle Layd Dr.
		4		P.O. #:			MIBS
ANALYSIS REQUEST				BILL TO	18:11 to XTO Energy, Inc)		Project Manager
					1-2410	- 1.	Company Name: Nath D

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 399531

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	399531
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403657069
Incident Name	NAPP2403657069 PLU 25 BRUSHY DRAW WEST @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 25 Brushy Draw West
Date Release Discovered	01/22/2024
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 the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 40 BBL Recovered: 35 BBL Lost: 5 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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 399531

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 399531
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
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	afety 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 ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require 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: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/05/2024

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 399531

QUESTIONS (continued)

Operator:		OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	399531
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions ti	hat apply or are indicated. This information must be provided t	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 de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	17000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	23
GRO+DRO	(EPA SW-846 Method 8015M)	23
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete the selines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
On what estimated date wi	Il the remediation commence	07/22/2024
On what date will (or did) to	ne final sampling or liner inspection occur	06/24/2024
On what date will (or was)	the remediation complete(d)	10/22/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	8480
What is the estimated volu	me (in cubic yards) that will be reclaimed	200
What is the estimated surfa	ace area (in square feet) that will be remediated	8480
What is the estimated volu	me (in cubic yards) that will be remediated	200
These estimated dates and measu	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that propose	ed remediation measures may have to be minimally adjusted in	accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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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, Page 4

Action 399531

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	399531
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site 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: Kailee Smith Title: Regulatory Analyst I hereby agree and sign off to the above statement Email: kailee.smith@exxonmobil.com Date: 11/05/2024

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

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

Operator:

Phone: (505) 629-6116
Online Phone Directory

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

XTO ENERGY, INC

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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Action 399531

QUESTIONS (continued)

OGRID:

5380

6401 Holiday Hill Road Midland, TX 79707	Action Number: 399531
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f 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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The deferral area is directly under and surrounding separators and a pipe rack. Removal of this equipment would require well shut-in and major facility deconstruction.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3208
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	500
	iately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	PLU 25 BRUSHY DRAW BTY [fAPP2126355953]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed en which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for release the 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 asses 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: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/05/2024

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QUESTIONS, Page 6

Action 399531

QUESTIONS	(continued)
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	399531
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	383207	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024	
What was the (estimated) number of samples that were to be gathered	45	
What was the sampling surface area in square feet	9000	

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	

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CONDITIONS

Action 399531

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	399531
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created B	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2403657069) until final reclamation of the well pad or major construction, whichever comes first. Vertex and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 2 that is designated in proximity to equipment, specifically characterization borehole BH24-29 and confirmation sample areas BS24-44 and WS24-04, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/10/2024