Incident Number: nAPP2326841759



Release Assessment and Closure

Muy Wayno 18 CTB

Section 18, Township 25 South, Range 30 East

County: Eddy

Vertex File Number: 23E-05486

Prepared for:

XTO Energy

Prepared by:

Vertex Resource Services Inc.

Date:

December 2023

Release Assessment and Closure December 2023

Release Assessment and Closure Muy Wayno 18 CTB Section 18, Township 25 South, Range 30 East County: Eddy

Prepared for:

XTO Energy

3104 E. Greene Street Carlsbad, NM 88220

New Mexico Oil Conservation Division - District II

811 S. 1st Street

Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220

Angela Mohle
Angela Mohle, B.A., B.Sc.

ENVIRONMENTAL TECHNICIAN, REPORTING

12/8/2023

Date

Chance Dixon
Chance Dixon, B.Sc.

PROJECT MANAGER, REPORT REVIEW

12/8/2023

Date

Release Assessment and Closure December 2023

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Release Assessment and Closure December 2023

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Release Assessment and Closure November 2023

1.0 Introduction

XTO Energy (XTO) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a condensate release that occurred on September 11, 2023, at Muy Wayno 18 CTB (hereafter referred to as the "site"). XTO submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on September 11, 2023. Incident ID number nAPP2326841759 was assigned to this incident.

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

2.0 Incident Description

The release occurred on September 11, 2023, due to the liquid petroleum (LP) guppy pump failing to drain the built-up condensate during the purging procedure. The fluid released from the LP flare ignited and extinguished upon hitting the pad surface. The incident was reported on September 11, 2023, and involved the release of approximately 0.5 barrels (bbl.) of condensate on the pad site. Approximately 0 bbl. of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report. The Daily Field Report with site photographs associated with the characterization of the site is included in Appendix C.

3.0 Site Characteristics

The site is located approximately 10.8 miles southeast of Malaga, New Mexico. The legal location for the site is Section 18, Township 25 South and Range 30 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management (BLM) property. An aerial photograph and site schematic are presented on Figure 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology primarily comprises Qep — Eolian and piedmont deposits (Holocene to middle Pleistocene), and is characterized as sand, silt, and gravel. Predominant soil texture on the site is loamy sand.

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 on or in proximity to the constructed pad (Figure 1).

The surrounding landscape is associated with plains and fan piedmonts with elevations ranging between 2000 and 5700 feet. The climate is semiarid with average annual precipitation ranging between 6 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

Release Assessment and Closure November 2023

The surface geology at the site primarily comprises Qep – Eolian and piedmont deposits (Holocene to middle Pleistocene (New Mexico Bureau of Geology and Mineral Resources, 2023) and the soil at the site is characterized as loamy fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Additional soil characteristics include a drainage class of Well drained with a runoff class of Low. The karst geology potential for the site is Low (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 0.49 miles north of the location (United States Geological Survey, 2023). Data from 2023 shows the NMOSE borehole recorded a depth to groundwater of 101 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream (National Wetlands Inventory) located approximately 0.63 miles south of the site (United States Fish and Wildlife Service, 2023).

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

Release Assessment and Closure November 2023

	e: Muy Wayno 18 CTB rdinates: 32.126341°, -103.926821°	X: 01231	Y: 54944
•	cific Conditions	Value	Unit
1	Depth to Groundwater	>100	feet
	Within 300 feet of any continuously flowing		
2	watercourse or any other significant watercourse	3,326	feet
	Within 200 feet of any lakebed, sinkhole or playa lake		_
3	(measured from the ordinary high-water mark)	12,672	feet
	Within 300 feet from an occupied residence, school,		
4	hospital, institution or church	48,048	feet
	i) Within 500 feet of a spring or a private, domestic		
_	fresh water well used by less than five households for	No	feet
5	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	No	feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-	No	(Y/N)
	3 NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	5,385	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	No	year
11	Soil Type	ВА	
12	Ecological Classification	ВА	
13	Geology	Qep	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

Release Assessment and Closure November 2023

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

Table 2. Closure Criteria for Soils 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

Characterization of the release area was completed on November 16, 2023, which identified the area of the release specified in the initial C-141 Report. Vertex investigated the area based on photo documentation of the release area that was provided by XTO due to the staining no longer being visible. The impacted area was sampled and field screened for vertical and horizontal delineation. Vertex collected a total of 11 samples at 5 sample points (boreholes) and consisted of a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons), and Titration (chlorides). It was determined that no remnant impacts exceeding NMOCD's strictest closure criteria remained in the release area and no remedial activities were required. The DFR associated with the site inspection and photo evidence of the release area are included in Appendix C.

6.0 Closure Request

The release area was fully delineated on November 16, 2023. Delineation samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "greater than 100 feet to groundwater". Based on these findings, XTO Energy requests that this release be closed. Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

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

BTEX – benzene, toluene, ethylbenzene and xylenes

7.0 References

- Google Inc. (2022). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2023). Assessed and Impaired Waters of New Mexico.

 Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2023). *OCD Permitting Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2023). *Coal Mine Resources in New Mexico*. Retrieved from https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93
- New Mexico Office of the State Engineer. (2023a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2023b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2023c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2023). Web Soil Survey. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2023). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). New Mexico Cave/Karst. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Geological Survey. (2023). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

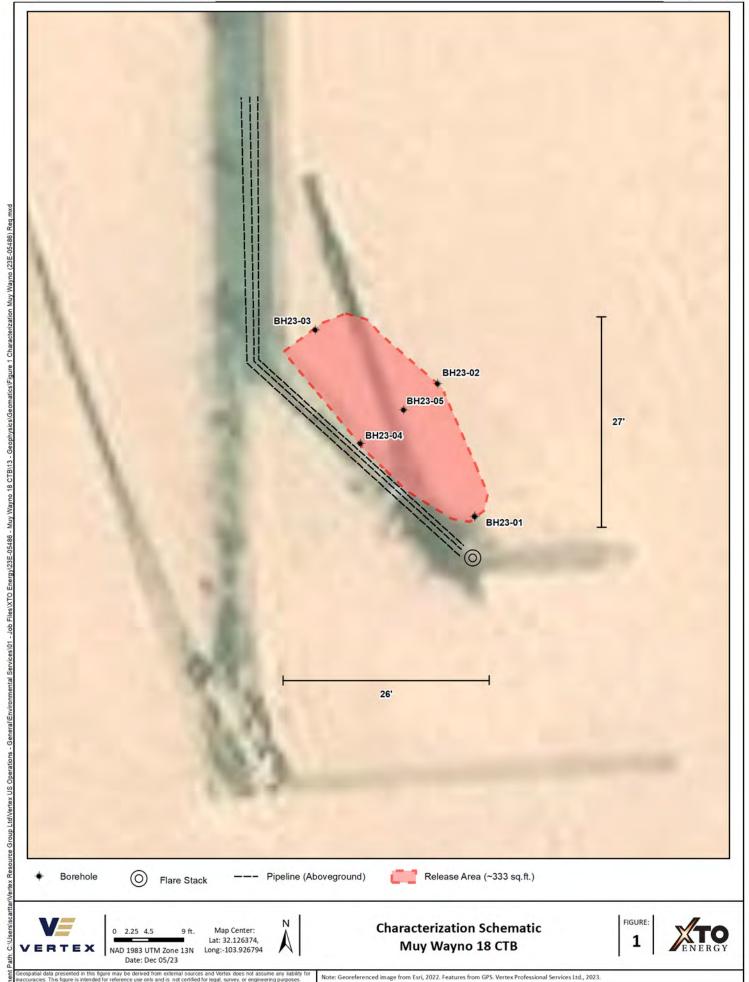
Release Assessment and Closure November 2023

8.0 Limitations

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

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

FIGURE



TABLE

Client Name: XTO Energy Site Name: Muy Wayno 18 CTB NMOCD Tracking #: nAPP2326841759

Project #: 23E-05486 Lab Reports: 890-5660-1

	Table	3. Initial Characte	erization S	ample Fiel	ld Screen	and Labora	atory Resu	ılts - Deptl	h to Grour	ndwater >:	100 feet b	gs	
Sample Description Field Screening Petroleu			Petroleum Hydrocarbons										
			qs			Vol	atile			Extractable)		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	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)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH23-01	0	2023-11-16	-	44	456	ND	ND	ND	ND	ND	ND	ND	126
BH23-01	2	2023-11-16	-	32	51	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	0	2023-11-16	-	20	324	ND	ND	ND	ND	ND	ND	ND	194
B1123-02	2	2023-11-16	-	11	75	ND	ND	ND	ND	ND	ND	ND	8
BH23-03	0	2023-11-16	-	22	512	ND	ND	ND	ND	ND	ND	ND	80
БП23-03	2	2023-11-16	-	25	75	ND	ND	ND	ND	ND	ND	ND	16
BH23-04	0	2023-11-16	-	33	285	ND	ND	ND	ND	ND	ND	ND	75
	2	2023-11-16	-	27	79	ND	ND	ND	ND	ND	ND	ND	6
BH23-05	0	2023-11-16	-	33	285	ND	ND	ND	ND	ND	ND	ND	58
	2	2023-11-16	-	33	112	ND	ND	ND	ND	ND	ND	ND	13
	4	2023-11-16	-	14	93	ND	ND	ND	ND	ND	ND	ND	7

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



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

APPENDIX A - NMOCD C-141 Report

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2326841759
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			•	J			
Responsible	Party XTC) Energy		OGRID 5	5380		
Contact Nam	Contact Name Garrett Green				Contact Telephone 575-200-0729		
Contact ema	Contact email garrett.green@exxonmobil.com				Incident # (assigned by OCD)		
			reet, Carlsbad, Nev	w Mexico, 88220			
			Location	of Release So	ource		
Latitude 32.	12730			Longitude _	-103.926767		
Latitude			(NAD 83 in dec	imal degrees to 5 decim	al places)		
Site Name	Muy Wayno	19 CTD		Site Type (Central Tank Battery		
Date Release				API# (if appl			
		07/11/2023			·		
Unit Letter	Section	Township	Range	Coun	ty		
L	L 18 25S 30E			Eddy	y		
Surface Owne				l Volume of F	Release justification for the volume	s provided below)	
Crude Oil		Volume Release		1	Volume Recovered		
Produced	Water	Volume Release	ed (bbls)		Volume Recovered	(bbls)	
			tion of total dissolv water >10,000 mg		☐ Yes ☐ No		
x Condensa	ite	Volume Release	ed (bbls) .05		Volume Recovered	(bbls) 0.00	
☐ Natural G	ias	Volume Release	d (Mcf)		Volume Recovered	(Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Rec	covered (provide units)	
Cause of Rel	rerease	nom me Lr mare.	Truids ignified and	i extiliguished upon	the built-up condensate the hitting the pad surface ained for remediation	e, which caused the fluid to ee. No injuries and no damage to purposes.	

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Incident ID	nAPP2326841759
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by	A release that results in a fire or is the resu	lt of a fire.
19.15.29.7(A) NMAC?		
🗶 Yes 🗌 No		
If YES, was immediate n	Lotice given to the OCD? By whom? To what is a single of the OCD?	nom? When and by what means (phone, email, etc)?
'	o ocd.enviro@emnrd.nm.gov on 09/11/2022	· · · · · · · · · · · · · · · · · · ·
1 200, 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Initial R	esponse
The responsible		-
The responsible	party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury
The second of the male	and has been stormed	
	ease has been stopped.	
	as been secured to protect human health and	
		likes, absorbent pads, or other containment devices.
▲ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
NA		
Per 19 15 29 8 B (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
within a lined containment	nt area (see 19.15.29.11(A)(5)(a) NMAC), p	please attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
and/or regulations.		T
Printed Name: Garrett G	reen	Title: Environmental Coordinator
Signature:	at Sun	Date: 9/25/2023
garrett green@evy	vonmobil com	
email: garrett.green@exx		Telephone: 575-200-0729
OCD Only		
Received by:		Date:
<u>-</u> -		

Location:	Muy Wayno 18 CTB		
Spill Date:	9/11/2023		
	Area 1		
Approximate A	rea =	81.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.25	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Condensa	te=	0.05	bbls
Total Produced	Water =	0.00	bbls
	TOTAL VOLUME OF LEAK		
Total Condens	ate =	0.05	bbls
Total Produced	Water =	0.00	bbls
	TOTAL VOLUME RECOVERED)	
Total Condens	ate =	0.00	bbls
Total Produced	Water =	0.00	bbls

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Incident ID	nAPP2326841759
District RP	
Facility ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no taler man 70 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)			
Did this release impact groundwater or surface water?	Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No			
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No			
Are the lateral extents of the release overlying a subsurface mine?	Yes X No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No			
Are the lateral extents of the release within a 100-year floodplain?	Yes X No			
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No			
attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil ontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				

Characterization Report Checklist: Each of the following items must be included in the report.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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)	nAPP2326841759	

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Application ID	

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.						
Printed Name: Garrett Green	Title: Environmental Coordinator					
Signature:	Date:					
email: _garrett.green@exxonmobil.com	Telephone: 575-200-0729					
OCD Only						
Received by:	Date:					

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Incident ID District RP Facility ID Application ID

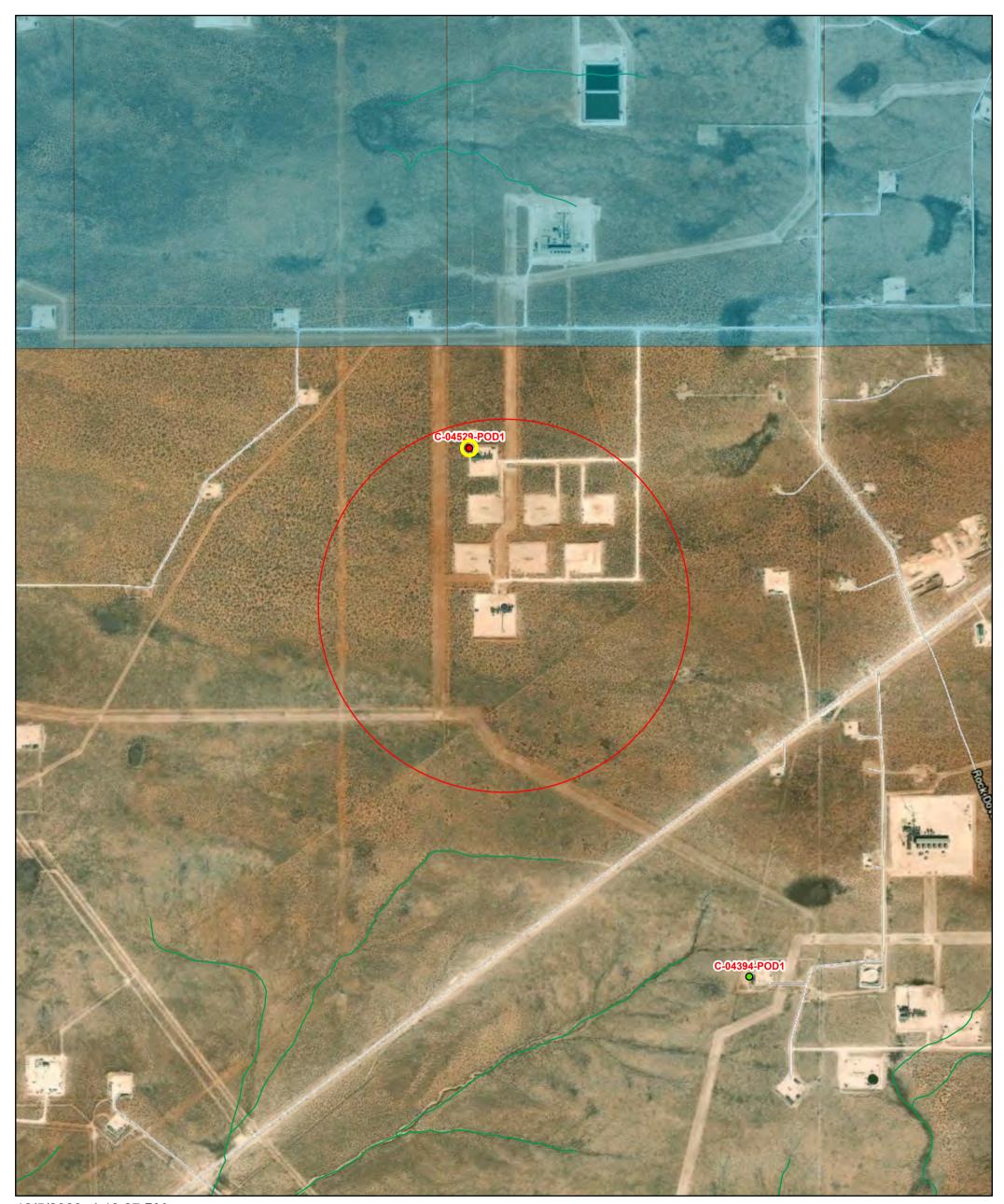
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.									
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC									
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)									
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)									
X Description of remediation activities									
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including notif	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in								
Signature:									
email: _garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>								
OCD Only									
Received by:	Date:								
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.								
Closure Approved by:	Date:								
Printed Name:	Title:								

APPENDIX B – Closure Criteria Research Documentation

C-04529 POD1 0.5-Mile Radius



12/5/2023, 4:13:27 PM GIS WATERS PODs

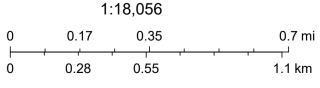
Pending

Plugged

New Mexico State Trust Lands

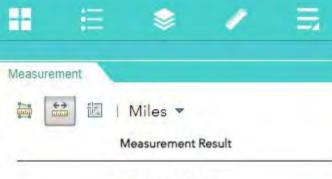
Both Estates NHD Flowlines

Stream River



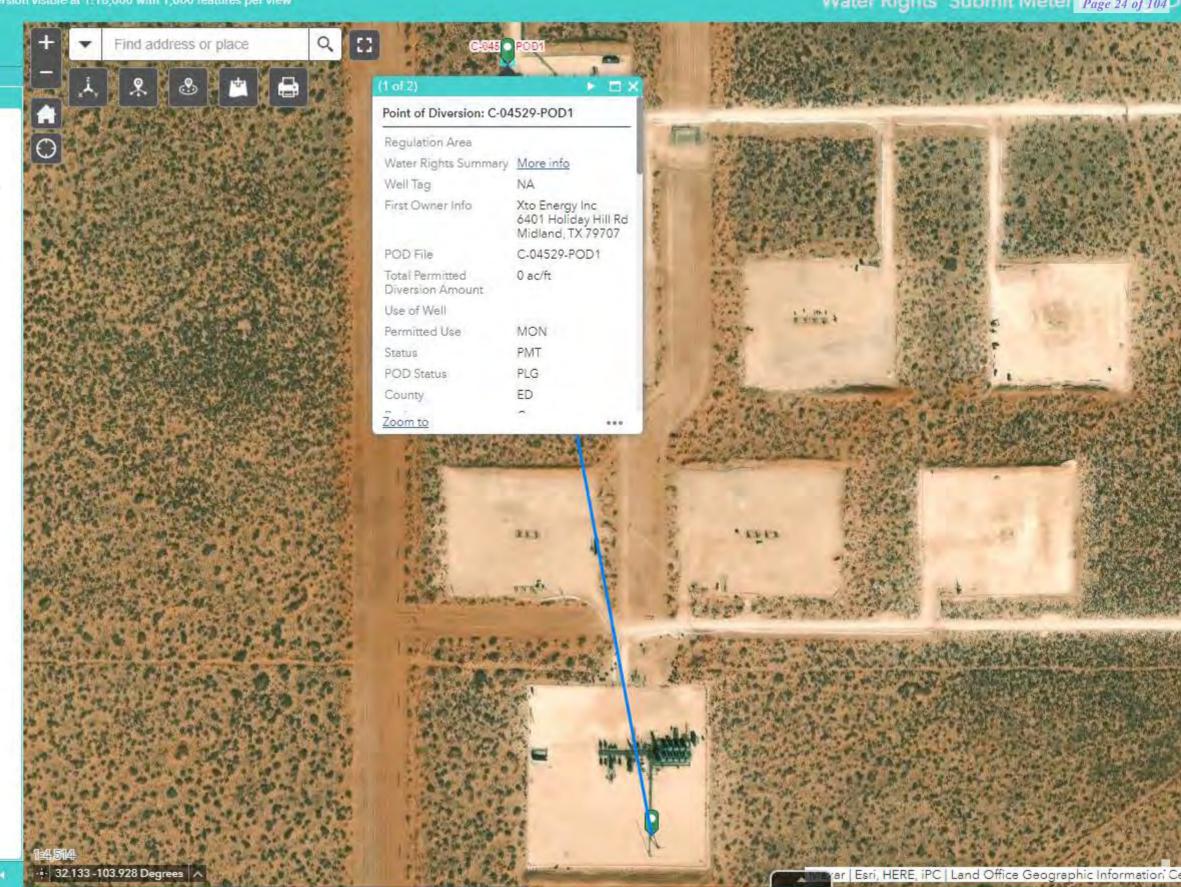
Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

OSE District Boundary



0.49 Miles

Press CTRL to enable snapping





NO	OSE POD NO. (WELL NO.) POD1 (MW-1) WELL TAG ID NO. n/a						OSE FILE NO(S). C-4529						
OCATI	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)						PHONE (OPTIONAL)						
WELL I	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.							CITY STATE ZIP Midland TX 79707					
GENERAL AND WELL LOCATION	WELL LOCATION LATE		LATII	DEGREES 32°		MINUTES SECONDS 8' 2.07" N			* ACCURACY	A SECOND			
ŒR	(FROM GPS)		LONGITUDE		103° 55' 42.27" W			DATUM REQUIRED: WGS 84					
1. GET	DESCRIPTION NW NW Se				STREET ADD	RESS AND COMMON	LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AV	AILABLE	
	LICENSE NO.			NAME OF LICENSED						NAME OF WELL DRI			
	1249		_			Jackie D. Atkins			Atkins Engineering Associates,				
	DRILLING ST. 05/14/2			05/14/2021	· · ·			LE DEPTH (FT) 101	e depth (ft) depth water first encountered (ft) 01 n/a				
Z.	COMPLETED WELL IS: ARTESIAN			DRY HOLE SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a					
VII0	DRILLING FLUID:			MUD ADDITIVES – SPECIFY:									
RM.	DRILLING METHOD: ROTARY				☐ HAMMER ☐ CABLE TOOL ☑ OTHER			R - SPECIFY: Hollow Stem A			m Auger	a Auger	
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM	CASING MATERIAL AND/OR GRADE (include each casing string, and		CASING CONNECTION		CASING INSIDE DIAM.	0.1.0.1.0		SLOT SIZE		
ASI	(inches)		note sections of screen) (add co				YPE ling diameter)	(inches)		(inches)	(inches)		
38.	0 101 ±6.5			Boring- HSA				-					
EIN		•											
RIL													
2. D													
											<u> </u>		
	DEPTH (feet bgl) BORE HOLE				LI	LIST ANNULAR SEAL MATERIAL AND			AMOUNT METHOD OF				
ANNULAR MATERIAL	FROM	TC)	DIAM. (inches)	GRAVEL PACK SIZE-RANGE BY INTE			RVAL	(cubic feet)		PLACEMENT		
TER													
3 M											_		
ITY					1						\dashv		
Z													
3. A						-							
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17)										0/17)			
	NO.	<u>(</u> '-		529		POD NO		<u> </u>	TRN	vo. 4920	13		
LOC	ATION 📂	v.1	l	24	25.36	DE.K.1	31		WELL TAG I	D NO	-	PAGE	1 OF 2

	DEPTH (feet bgl)		THICKNESS	THICKNESS COLOR AND TYPE OF MATERIAL ENCOUNTERED -				WATER BEARING?		ESTIMATED YIELD FOR		
	FROM TO (feet) INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						(YES		WATER- BEARING ZONES (gpm)			
	0 4 4 SAND, poorly graded, fine-very grained, caliche gravel, Reddish-br								dry	Y	√ N	
	4	4 29 25 CALICHE, poorly consolidated, with sand medium grained, tan-off white, dry								Y	√ N	
	29	39	10	SAND, poorly graded,	fine-very grained, some	calich	he grav	el, Tan-brown	, dry	Y	√N	
	39	54	15	SILTY SAND, p	oorly graded, very- fine g	graine	d, Ligl	nt brown, dry		Y	√N	
	54	59	5	SILTY SAND, poorly a	graded, very- fine grained	l, calio	che gra	vel Light brow	vn, dr	Y	√N	
Ą	59	73	14	SANDY CLAY, very-f	ine grained sand, low pla	sticity	, Brov	n- Red Brown	ı, moi	Y	√N	
4. HYDROGEOLOGIC LOG OF WELL	73	79	6	CLAYEY SAND, low	plasticity, very-fine grain	ned sa	nd, Br	own/Red Brow	n, mq	Y	√N	
OF.	79 83 4 SANDY CLAY, very-fine grained sand, low plasticity, Brown- Dark Br									Y	✓ N	
90	83	94	9	SANDY CLAY, very-	fine grained sand, low pl	asticit	ty, Red	dish Brown, m	noist	Y	√ N	
:C1	94	99	5	SANDY CLAY, very-f	ine grained sand, low pla	sticity	, Brov	n-Dark Brown	n, dry	Y	√ N	
507	99	101	2	SANDY CLAY, ver	ry-fine grained sand, low	plasti	icity, E	arth Brown, di	у	Y	√ N	
EO										Y	N	
80										Y	N	
EX										Y	N	
4										Y	N	
										Y	N	
								T	Y	N		
									Y	N		
										Y	N	
										Y	N	
									1	Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL								TOTA	AL ESTIMATED		
	PUMP AIR LIFT BAILER OTHER - SPECIFY: WELL YIELD (gpm):									0.00		
NO	WELL TES				A COLLECTED DURIN							
TEST; RIG SUPERVISION	MISCELLA	NEOUS INF	ORMATION:		1	!1 1 ₂	1	-1-611 - 4	االساد ـــ	44'	. C	-1 d4b 4- 4
PER					ils removed and the soi ce, then hydrated bent							
S	I		Lo	ogs adapted from WSI	on-site geologist.							
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EST	PRINT NAM	(E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPER	VISIO	ON OF	WELL CONS	STRUC	TION O	THER TH	IAN LICENSEE:
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	Shalle Elan	ige, Carine	io ricvino, cui	icion i ruiti								
URE	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 AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:											
SIGNATURE	Jack Atkins Jackie D. Atkins								06/09/2021			
•	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE									_		
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Versjon 06/30/2017)												
	E NO.	Z Z	1525		POD NO.			TRN NO.	/ /	920	736	f 00/30/2017)
LO	CATION	<u> </u>	· <u> </u>		<i></i>	Tv	<u>VE</u> LL	TAG ID NO.	<u>-₩`</u>	-1		PAGE 2 OF 2



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: C 04529 Subbasin: CUB Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: XTO ENERGY INC Contact: KYLE LITTRELL

Documents on File

Status From/

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

get 692934 EXPL 2021-04

PMT APR C 04529 POD1 T 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64 Q16 Q4 Sec Tws Rng C 04529 POD1 NA 1 3 1 18 25S 30E

64Q16Q4Sec Tws Rng1 3 1 18 25S 30E
601077
3555733
SITE AT 32.133484,

-103.928370

0

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.

11/3/23 11:12 AM WATER RIGHT SUMMARY



Muy Wayno Watercourse 0.63 Mi



November 3, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Lake

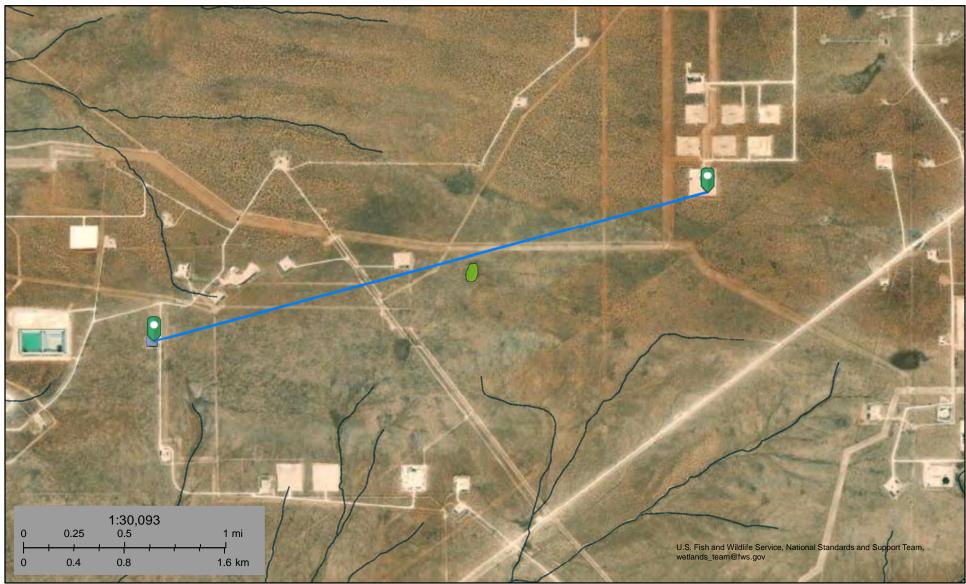
Other

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.



Muy Wayno Pond 2.4 Mi



November 3, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

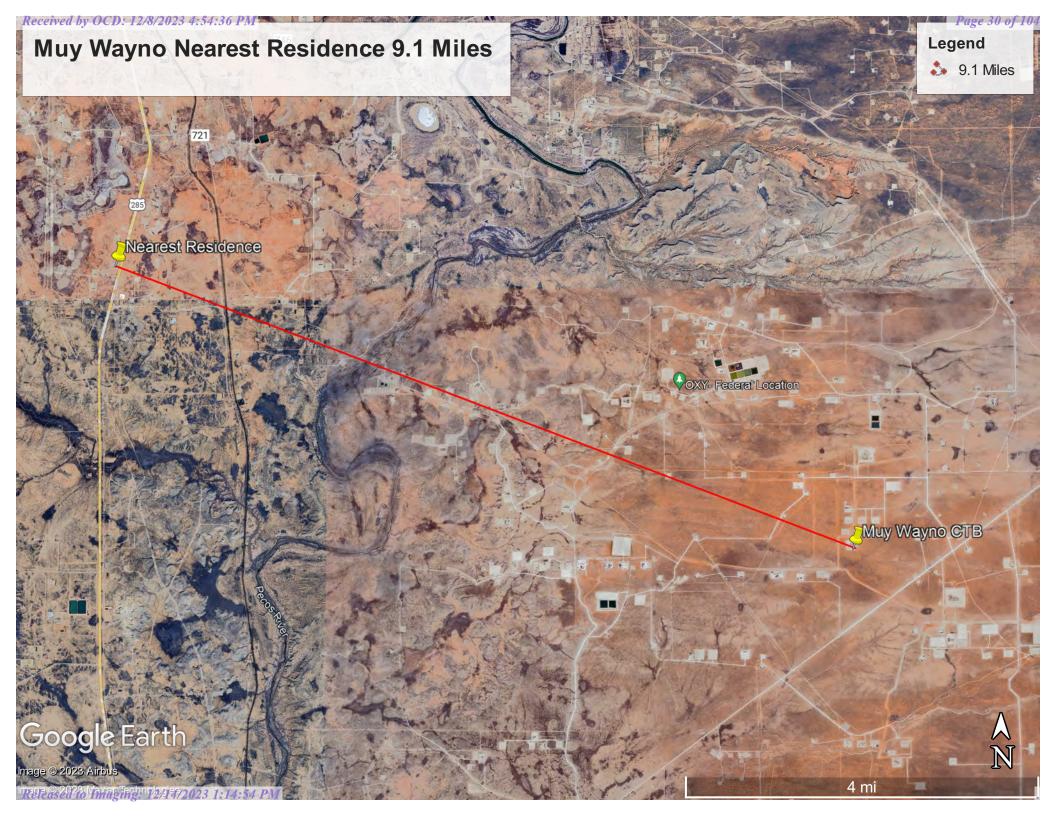
Freshwater Pond

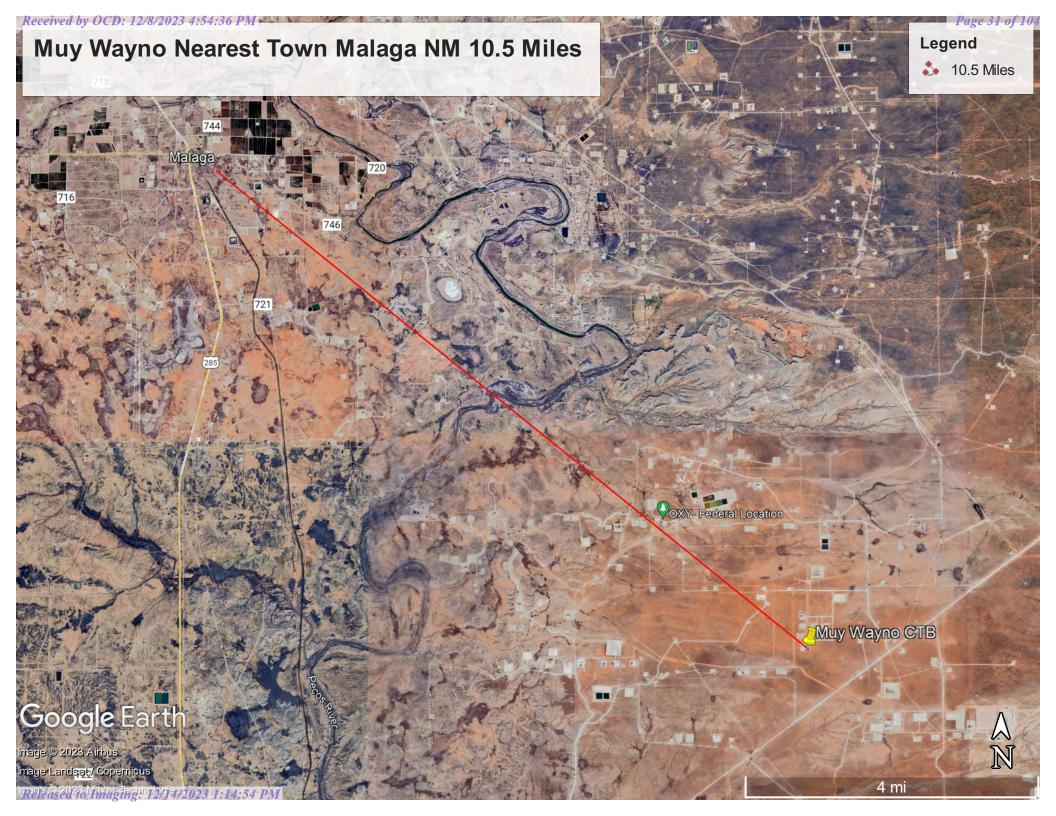
Lake

Riverine

Other

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







Muy Wayno 18 CTB Nearest Wetland 1.02



November 3, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

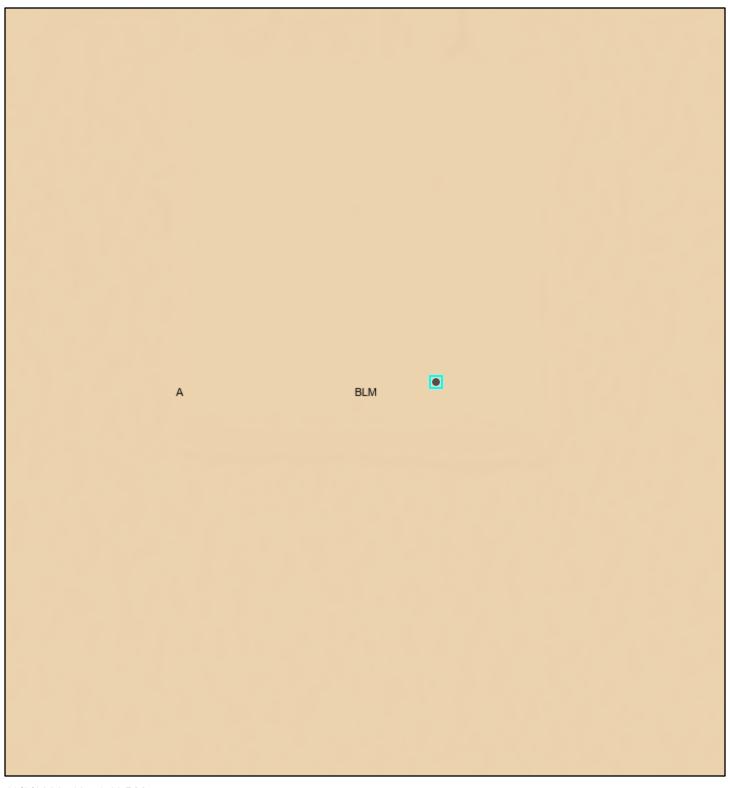
Lake

Riverine

Other

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

Muy Wanyo Mines



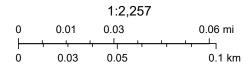
11/3/2023, 12:51:11 PM

Mineral Ownership

A-All minerals are owned by U.S.

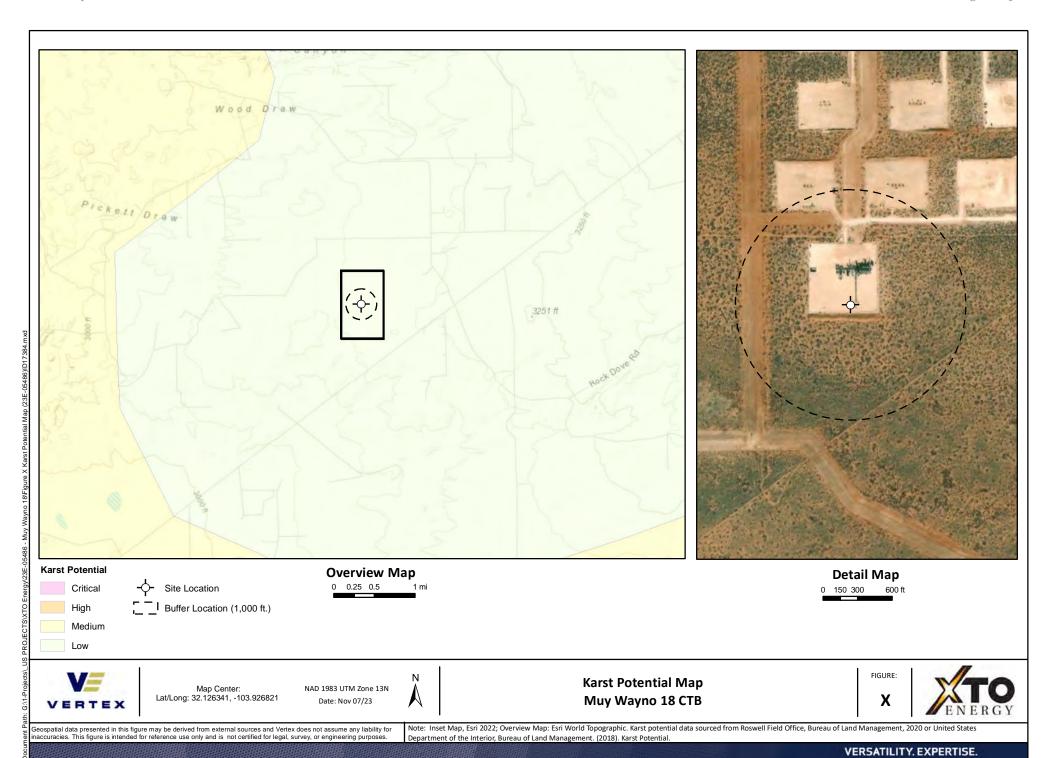
Land Ownership

BLM



U.S. BLM, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NM Coal Mine Reclamation Program, NM EMNRD, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS,

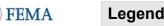
Received by OCD: 12/8/2023 4:54:36 PM



Released to Imaging: 12/14/2023 1:14:54 PM

National Flood Hazard Layer FIRMette



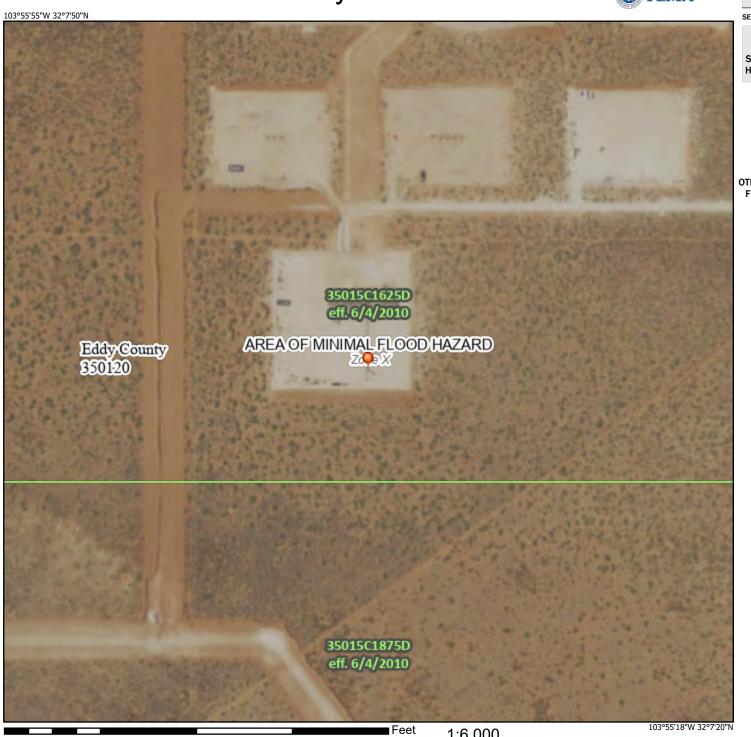


SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD 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 **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/3/2023 at 3:11 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.





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



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

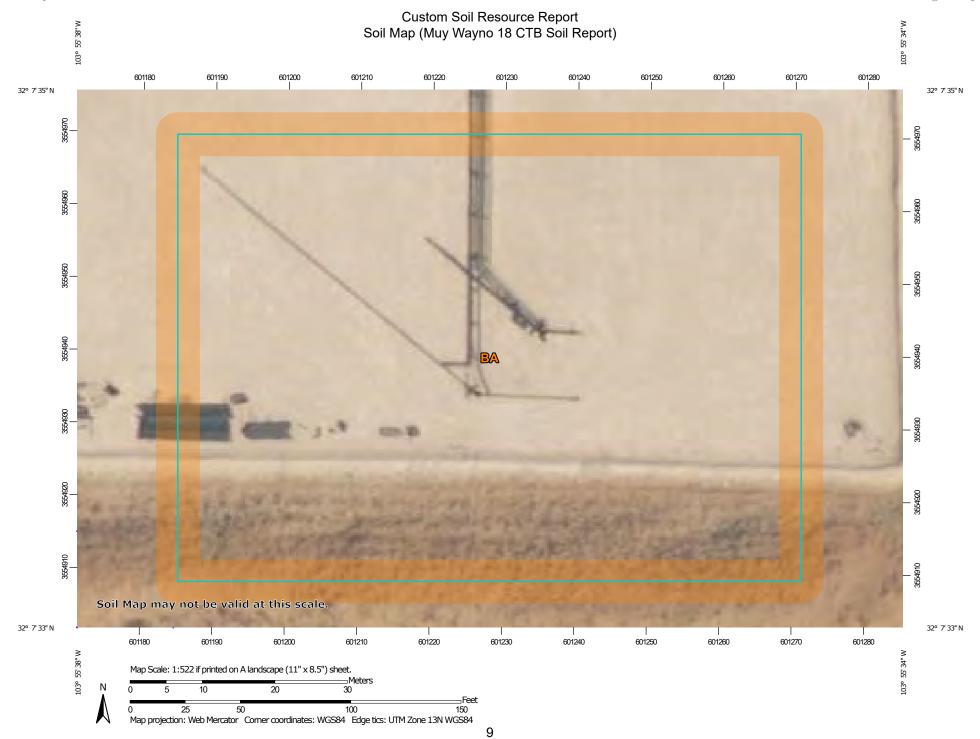
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

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



MAP LEGEND

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Water Features

Transportation

00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

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

Gravel Pit

Gravelly Spot

Landfill

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

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 (Muy Wayno 18 CTB Soil Report)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ВА	Berino loamy fine sand, 0 to 3 percent slopes	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

Map Unit Descriptions (Muy Wayno 18 CTB Soil Report)

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

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent Minor components: 1 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

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

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand H2 - 12 to 58 inches: sandy clay loam H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

APPENDIX C – Daily Field Report





Client:	XTO Energy Inc. (US)	Inspection Date:	11/16/2023
Site Location Name:	Muy Wayno 18 CTB	Report Run Date:	11/17/2023 8:22 PM
Client Contact Name:	Garrett Green	API #:	
Client Contact Phone #:	575-200-0729		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Fimes
Arrived at Site	11/16/2023 12:14 PM		
Departed Site	11/16/2023 2:02 PM		
		Field Note	

- 13:58 Arrived on site and filled out paperwork.
- **13:58** Conducted site walkthrough and mapped area.
- **14:02** Collected and field screened samples BH23-01 through 04 at 0' and 2'. Also collected BH23-05 at 0', 2', and 4'. Jarred and prepped samples for lab submission.

Next Steps & Recommendations

1



Site Photos





Release area with point of release. Boreholes in photo.

Descriptive Photo - 2
Viewing Direction: South
Descriptive Photo - 2
Viewing Direction
Descriptive Photo - 2
Viewing Direction
Created: 11/16/2022 1:50:251 PM
Latizz. 126468, Longo-103.505767

Release area.

Viewing Direction: Southeast



Release area.

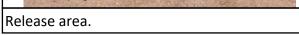
Viewing Direction: Northeast



Release area near point of release.









Release area.



Daily Site Visit Signature

Inspector: Hunter Klein

Signature:

APPENDIX D – Notification(s)

Collins, Melanie

From: Collins, Melanie

Sent: Monday, September 11, 2023 7:26 PM

To: DelawareSpills /SM

Subject: FW: 24-Hour notification Muy Wayno 18 CTB 9-11-23

Follow Up Flag: Follow up Flag Status: Flagged

Melanie Collins



Environmental Technician melanie.collins@exxonmobil.com

432-556-3756

From: Collins, Melanie

Sent: Monday, September 11, 2023 7:26 PM

To: ocd.enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>

Cc: Green, Garrett J <garrett.green@exxonmobil.com>; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>;

Dach, Michael M <michael.dach@exxonmobil.com> **Subject:** 24-Hour notification Muy Wayno 18 CTB 9-11-23

All,

This is notification of a flare fire incident that occurred today, 9/11/23, at the Muy Wayno 18 Central Tank Battery near the coordinates listed below. Details will be provided with a Form C-141. Please reach out with questions or concerns.

GPS 32.127309, -103.926767

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

APPENDIX E – Laboratory Data Report and Chain of Custody Form

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 11/28/2023 12:49:20 PM

JOB DESCRIPTION

MUY WAYNO 23E-05486

JOB NUMBER

890-5660-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 11/28/2023 12:49:20 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

2

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10

4.6

13

14

Client: Vertex Laboratory Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

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Definitions/Glossary

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO

SDG: 23E-05486

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

HPLC/IC

Qualifier **Qualifier Description** U Indicates the analyte was analyzed for but not detected.

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

Job ID: 890-5660-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5660-1

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 11/17/2023 12:41 PM. 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 -0.2°C

Receipt Exceptions

The following samples were receive	ed and analyzed from an unpres	erved bulk soil jar: BH23 - 01	0' (890-5660-1), BH23 - 01
2' (890-5660-2), BH23 - 02	0' (890-5660-3), BH23 - 02	2' (890-5660-4), BH23 - 03	0' (890-5660-5), BH23 - 03
2' (890-5660-6), BH23 - 04	0' (890-5660-7), BH23 - 04	2' (890-5660-8), BH23 - 05	0' (890-5660-9), BH23 - 05
2' (890-5660-10) and BH23 - 05	4' (890-5660-11).		

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-67587/5-A). Evidence of matrix interferences is not obvious.

0' (890-5660-5), (CCV Method 8021B: Surrogate recovery for the following samples were outside control limits: BH23 - 03 880-67689/33) and (LCSD 880-67587/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-67694/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67587 and analytical batch 880-67689 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.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-67700 and analytical batch 880-67682 was outside the upper control limits.

Method	8015MOD_NM: Surrogate recovery	for the following samples were outs	side control limits: BH23 - 01	0' (890-5660-1), BH23 -
01	2' (890-5660-2), BH23 - 02	0' (890-5660-3), BH23 - 02	2' (890-5660-4), BH23 - 03	0' (890-5660-5), BH23 -
04	0' (890-5660-7), BH23 - 04	2' (890-5660-8), BH23 - 05	0' (890-5660-9), BH23 - 05	4' (890-5660-11),
(890-56	55-A-1-C), (890-5655-A-1-D MS) and	d (890-5655-A-1-E MSD). Evidence	e of matrix interference is present;	therefore, re-extraction
and/or r	e-analysis was not performed.			

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67700 and analytical batch 880-67682 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference

Case Narrative

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

Job ID: 890-5660-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance 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.

Job ID: 890-5660-1

Client: Vertex Project/Site: MUY WAYNO SDG: 23E-05486

0' Client Sample ID: BH23 - 01 Lab Sample ID: 890-5660-1

Date Collected: 11/16/23 11:00 Matrix: Solid Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/21/23 16:50	11/28/23 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			11/21/23 16:50	11/28/23 06:16	1
1,4-Difluorobenzene (Surr)	111		70 - 130			11/21/23 16:50	11/28/23 06:16	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/28/23 06:16	1
	. 5 5.	(=) (30)					
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/27/23 13:24	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9 (GC)		<u>D</u>		11/27/23 13:24	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg		Prepared	11/27/23 13:24 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			11/27/23 13:24	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	11/27/23 13:24 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32	11/27/23 13:24 Analyzed 11/27/23 13:24 11/27/23 13:24	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32	11/27/23 13:24 Analyzed 11/27/23 13:24	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32	11/27/23 13:24 Analyzed 11/27/23 13:24 11/27/23 13:24	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 Sel Range Orga Result <49.9 <49.9 <49.9	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32	Analyzed 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared	Analyzed 11/27/23 13:24 Analyzed 11/27/23 13:24 11/27/23 13:24 Analyzed	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Inics (DRO) Qualifier U U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared 11/27/23 09:32	Analyzed 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24 Analyzed 11/27/23 13:24	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Inics (DRO) Qualifier U U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared 11/27/23 09:32	Analyzed 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24 11/27/23 13:24 Analyzed 11/27/23 13:24	Dil Fac

Client Sample ID: BH23 - 01 2' Lab Sample ID: 890-5660-2

Date Collected: 11/16/23 11:05 Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/21/23 16:50	11/28/23 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/21/23 16:50	11/28/23 08:02	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/21/23 16:50	11/28/23 08:02	1

Eurofins Carlsbad

Matrix: Solid

Client: Vertex

Project/Site: MUY WAYNO

Client Sample ID: BH23 - 01 2' Date Collected: 11/16/23 11:05

Lab Sample ID: 890-5660-2

11/27/23 13:46

11/27/23 09:32

Date Received: 11/17/23 12:41

Matrix: Solid

Job ID: 890-5660-1

SDG: 23E-05486

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/28/23 08:02	1
Method: SW846 8015 NM -	Diesel Range Organ	ics (DRO) (C	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

<50.2 U 50.2 Gasoline Range Organics mg/Kg 11/27/23 09:32 11/27/23 13:46 (GRO)-C6-C10 50.2 Diesel Range Organics (Over <50.2 U mg/Kg 11/27/23 09:32 11/27/23 13:46 C10-C28) OII Range Organics (Over C28-C36) <50.2 U 50.2 mg/Kg 11/27/23 09:32 11/27/23 13:46 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 151 S1+ 11/27/23 09:32 11/27/23 13:46

Method: EPA 300.0 - Anions, Ion C	hromatography - Sol	uble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97 U	4.97	mg/Kg			11/23/23 00:41	1

70 - 130

124

Client Sample ID: BH23 - 02 0' Lab Sample ID: 890-5660-3

Released to Imaging: 12/14/2023 1:14:54 PM

C10-C28)

o-Terphenyl

Date Collected: 11/16/23 11:10 **Matrix: Solid** Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/21/23 16:50	11/28/23 08:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/21/23 16:50	11/28/23 08:28	1
			70 100			11/01/00 10 50	44/00/02 00:00	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	93 - Total BTEX Calo	culation	70 - 130			11/21/23 16:50	11/28/23 08:28	,
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	Unit mal//a	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399	Qualifier U	RL 0.00399		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00399 esel Range Organ	Qualifier U	RL 0.00399		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399	mg/Kg		Prepared	Analyzed 11/28/23 08:28	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.4	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.4	mg/Kg		Prepared	Analyzed 11/28/23 08:28 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.4 viesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.4	mg/Kg		Prepared	Analyzed 11/28/23 08:28 Analyzed	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.4 viesel Range Orga	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	RL 0.00399 GC) RL 50.4	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/28/23 08:28 Analyzed 11/27/23 14:08	Dil Fac

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Job ID: 890-5660-1

Client: Vertex

Project/Site: MUY WAYNO

SDG: 23E-05486

Client Sample ID: BH23 - 02

0'

Lab Sample ID: 890-5660-3

Date Collected: 11/16/23 11:10 Date Received: 11/17/23 12:41

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result Qualifier	RL	Unit	U	Prepared	Anaiyzed	DII Fac
Oll Range Organics (Over C28-C36)	<50.4 U	50.4	mg/Kg		11/27/23 09:32	11/27/23 14:08	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane 141 S1+ 70 - 130 11/27/23 14:08 11/27/23 09:32 o-Terphenyl 119 70 - 130 11/27/23 09:32 11/27/23 14:08

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Unit D Dil Fac RL Prepared Analyzed 5.01 Chloride 194 11/23/23 00:47 mg/Kg

Client Sample ID: BH23 - 02 2' Lab Sample ID: 890-5660-4

Date Collected: 11/16/23 11:15

Matrix: Solid

Date Received: 11/17/23 12:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/21/23 16:50	11/28/23 08:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 106 70 - 130 11/21/23 16:50 11/28/23 08:54 1,4-Difluorobenzene (Surr) 91 70 - 130 11/21/23 16:50 11/28/23 08:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	ma/Ka			11/28/23 08:54	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			11/27/23 14:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

		(- /	(-)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		11/27/23 09:32	11/27/23 14:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		11/27/23 09:32	11/27/23 14:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/27/23 09:32	11/27/23 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	11/27/23 09:32	11/27/23 14:30	1
o-Terphenyl	120		70 - 130	11/27/23 09:32	11/27/23 14:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.48		4.99	mg/Kg			11/23/23 01:04	1

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Job ID: 890-5660-1

Client: Vertex Project/Site: MUY WAYNO SDG: 23E-05486

0' Client Sample ID: BH23 - 03 Lab Sample ID: 890-5660-5

Date Collected: 11/16/23 11:20 Matrix: Solid Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/21/23 16:50	11/28/23 09:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/21/23 16:50	11/28/23 09:21	1
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130			11/21/23 16:50	11/28/23 09:21	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/28/23 09:21	1
Analyte Total TDU		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0		RL		D	Prepared	Analyzed 11/27/23 14:52	Dil Fac
- -				0 0				
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 14:52	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 14:52	
C10-C28)								1
,	<50.0	11	50.0	malka		11/27/22 00:32	11/27/22 14:52	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 14:52	1
,	<50.0	∪ Qualifier	50.0 Limits	mg/Kg		11/27/23 09:32 Prepared	11/27/23 14:52 Analyzed	
OII Range Organics (Over C28-C36)	%Recovery			mg/Kg				1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery	Qualifier	Limits	mg/Kg		Prepared	Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate		Qualifier S1+	Limits 70 - 130 70 - 130	mg/Kg		Prepared 11/27/23 09:32	Analyzed 11/27/23 14:52	1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 133 113 Chromatograp	Qualifier S1+	Limits 70 - 130 70 - 130	mg/Kg Unit	D	Prepared 11/27/23 09:32	Analyzed 11/27/23 14:52	1 Dil Fac

Client Sample ID: BH23 - 03 2' Lab Sample ID: 890-5660-6 Matrix: Solid Date Collected: 11/16/23 11:25

Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/21/23 16:50	11/28/23 09:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			11/21/23 16:50	11/28/23 09:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130			11/21/23 16:50	11/28/23 09:47	1

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Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

2' Client Sample ID: BH23 - 03 Lab Sample ID: 890-5660-6

Date Collected: 11/16/23 11:25 Matrix: Solid Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/28/23 09:47	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/27/23 15:35	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		11/27/23 09:32	11/27/23 15:35	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		11/27/23 09:32	11/27/23 15:35	1
C10-C28) OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/27/23 09:32	11/27/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			11/27/23 09:32	11/27/23 15:35	1
o-Terphenyl	106		70 - 130			11/27/23 09:32	11/27/23 15:35	1

Client Sample ID: BH23 - 04 Lab Sample ID: 890-5660-7 0' Date Collected: 11/16/23 11:30 **Matrix: Solid**

4.97

mg/Kg

15.9

Date Received: 11/17/23 12:41

Released to Imaging: 12/14/2023 1:14:54 PM

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 10:13	
Toluene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 10:13	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 10:13	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/21/23 16:50	11/28/23 10:13	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 10:13	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/21/23 16:50	11/28/23 10:13	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		70 - 130			11/21/23 16:50	11/28/23 10:13	
4 4 10 10 10 10 10	83		70 - 130			11/21/23 16:50	11/28/23 10:13	
	- Total BTEX Cald	culation Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald							
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00401	Qualifier U	RL 0.00401	mg/Kg		Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00401	Qualifier U	RL 0.00401		D_		Analyzed	Dil Fa
- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	- Total BTEX Cald Result <0.00401	Qualifier U ics (DRO) (Qualifier	RL 0.00401	mg/Kg		Prepared	Analyzed 11/28/23 10:13	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.6	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 49.6	mg/Kg		Prepared	Analyzed 11/28/23 10:13 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.6	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 GC) RL 49.6	mg/Kg		Prepared	Analyzed 11/28/23 10:13 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.6	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 49.6	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/28/23 10:13 Analyzed 11/27/23 15:58	Dil Fa

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11/23/23 01:26

Job ID: 890-5660-1

Client: Vertex

Project/Site: MUY WAYNO

SDG: 23E-05486

Client Sample ID: BH23 - 04

Lab Sample ID: 890-5660-7

Matrix: Solid

Date Collected: 11/16/23 11:30 Date Received: 11/17/23 12:41

Method: SW846 8015B NM - Diesel Range Org	ganics (DRO) (GC)) (Continued)
_		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/27/23 09:32	11/27/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			11/27/23 09:32	11/27/23 15:58	1
o-Terphenyl	118		70 - 130			11/27/23 09:32	11/27/23 15:58	1

Method: EPA 300.0 - Anions, Ior	Chromatography - Soluble
Analyto	Popult Qualifier

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3		4.95	mg/Kg			11/23/23 01:32	1

Client Sample ID: BH23 - 04 2'

Date Collected: 11/16/23 11:35

Date Received: 11/17/23 12:41

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-5660-8

11/21/23 16:50 11/28/23 10:39

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: SW846 8021B - Volati	ie Organic Comp	ounas (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/21/23 16:50	11/28/23 10:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			11/21/23 16:50	11/28/23 10:39	1

Method: TAL SC	P Total BTEX - Total	al BTEX Calculation
Mictilou. IAL OC	JI TOTAL DIEX - TOTA	al BIEX Galculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			11/28/23 10:39	1

70 - 130

Method: SW846 8015 NM -	Diesel	Range	Organics	(DRO)	(GC)
moniour officero and item			•. ga•	(,	1/

116

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	П	50.0	ma/Ka			11/27/23 16:10		

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

		() (/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 16:19	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 16:19	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/27/23 09:32	11/27/23 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130	11/27/23 09:32	11/27/23 16:19	1
o-Terphenyl	122		70 - 130	11/27/23 09:32	11/27/23 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.83		5.01	mg/Kg			11/23/23 01:38	1

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

0' Client Sample ID: BH23 - 05 Lab Sample ID: 890-5660-9

Date Collected: 11/16/23 11:40 Matrix: Solid Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/21/23 16:50	11/28/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			11/21/23 16:50	11/28/23 11:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/21/23 16:50	11/28/23 11:06	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/28/23 11:06	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
	•		•	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	GC) RL 50.3	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/27/23 16:42	
	Result	Qualifier	RL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.3	Qualifier U	RL 50.3		<u>D</u>	Prepared		
Analyte Total TPH . Method: SW846 8015B NM - Die	Result <50.3 sel Range Organia	Qualifier U	RL 50.3		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.3 sel Range Organia	Qualifier Unics (DRO) Qualifier	RL 50.3	mg/Kg			11/27/23 16:42	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.3 Result <50.3 Result <50.3	Qualifier U nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32	11/27/23 16:42 Analyzed 11/27/23 16:42	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3 see Range Orga	Qualifier U nics (DRO) Qualifier U	FL 50.3 (GC)	mg/Kg		Prepared	11/27/23 16:42 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.3 Result <50.3 Result <50.3	Qualifier U nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 11/27/23 09:32	11/27/23 16:42 Analyzed 11/27/23 16:42	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.3 (GC) RL 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32	11/27/23 16:42 Analyzed 11/27/23 16:42 11/27/23 16:42	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.3 (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32	Analyzed 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared	Analyzed 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier S1+	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared 11/27/23 09:32	Analyzed 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 Analyzed 11/27/23 16:42	1 Dil Fac 1 1 1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier S1+	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/27/23 09:32 11/27/23 09:32 11/27/23 09:32 Prepared 11/27/23 09:32	Analyzed 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 11/27/23 16:42 Analyzed 11/27/23 16:42	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH23 - 05 Lab Sample ID: 890-5660-10 **Matrix: Solid**

Date Collected: 11/16/23 11:45 Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/21/23 16:50	11/28/23 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/21/23 16:50	11/28/23 11:32	1
1,4-Difluorobenzene (Surr)	89		70 - 130			11/21/23 16:50	11/28/23 11:32	1

Client Sample Results

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

2' Client Sample ID: BH23 - 05 Lab Sample ID: 890-5660-10

Date Collected: 11/16/23 11:45 Matrix: Solid Date Received: 11/17/23 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399	mg/Kg			11/28/23 11:32	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<50.1	U	50.1	mg/Kg			11/27/23 17:04	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		11/27/23 09:32	11/27/23 17:04	1
GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		11/27/23 09:32	11/27/23 17:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/27/23 09:32	11/27/23 17:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	113		70 - 130			11/27/23 09:32	11/27/23 17:04	1
p-Terphenyl	93		70 - 130			11/27/23 09:32	11/27/23 17:04	1

Client Sample ID: BH23 - 05 4' Lab Sample ID: 890-5660-11 Date Collected: 11/16/23 11:50 **Matrix: Solid**

12.8

5.04

mg/Kg

Date Received: 11/17/23 12:41

Released to Imaging: 12/14/2023 1:14:54 PM

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 11:58	
Toluene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 11:58	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 11:58	,
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/21/23 16:50	11/28/23 11:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/21/23 16:50	11/28/23 11:58	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/21/23 16:50	11/28/23 11:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			11/21/23 16:50	11/28/23 11:58	-
Method: TAL SOP Total BTEX -			70 - 130			11/21/23 16:50	11/28/23 11:58	
Method: TAL SOP Total BTEX - Analyte	· Total BTEX Cald	Qualifier	RL	Unit ma/Ka	<u>D</u>	11/21/23 16:50 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <	Qualifier U	RL 0.00403	<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result Result Result-100.00403 <a href="https:/</td><td>Qualifier
U</td><td>RL 0.00403</td><td></td><td> <u>D</u></td><td></td><td>Analyzed</td><td></td></tr><tr><td>Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies</td><td>Total BTEX Calc Result Result Result Result-100.00403 							

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11/23/23 01:49

Client Sample Results

Client: Vertex Job ID: 890-5660-1
Project/Site: MUY WAYNO SDG: 23E-05486

Client Sample ID: BH23 - 05 4'

Date Collected: 11/16/23 11:50

Date Received: 11/17/23 12:41

Lab Sample ID: 890-5660-11

Matrix: Solid

1	Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continued)					
/	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
(Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		11/27/23 09:32	11/27/23 17:28	1
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
7	1-Chlorooctane	135	S1+	70 - 130			11/27/23 09:32	11/27/23 17:28	1
L	o-Terphenyl	113		70 - 130			11/27/23 09:32	11/27/23 17:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	7.08		4.99	mg/Kg			11/23/23 01:55	1

7

8

9

11

13

14

Surrogate Summary

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
ah Camula ID	Client Commis	ID	(70-130)	(70-130)	
Lab Sample ID 890-5652-A-1-C MS	Client Sample Matrix Spike	עוי	116	89	
	•		114	98	
890-5652-A-1-D MSD	Matrix Spike D	•			
90-5660-1	BH23 - 01	0'	130	111	
90-5660-2	BH23 - 01	2'	99	92	
390-5660-3	BH23 - 02	0'	122	93	
90-5660-4	BH23 - 02	2'	106	91	
390-5660-5	BH23 - 03	0'	120	137 S1+	
90-5660-6	BH23 - 03	2'	92	84	
90-5660-7	BH23 - 04	0'	86	83	
90-5660-8	BH23 - 04	2'	128	116	
90-5660-9	BH23 - 05	0'	123	96	
90-5660-10	BH23 - 05	2'	107	89	
90-5660-11	BH23 - 05	4'	98	83	
CS 880-67587/1-A	Lab Control Sa	ample	116	124	
.CSD 880-67587/2-A	Lab Control Sa	ample Dup	130	136 S1+	
MB 880-67587/5-A	Method Blank		55 S1-	91	
/IB 880-67694/5-A	Method Blank		54 S1-	82	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

					Percent Surrogate Recovery (Acceptance Limits)
			1CO1	OTPH1	
ab Sample ID	Client Sample	: ID	(70-130)	(70-130)	
90-5655-A-1-D MS	Matrix Spike		153 S1+	111	
90-5655-A-1-E MSD	Matrix Spike D	Ouplicate	145 S1+	109	
90-5660-1	BH23 - 01	0'	134 S1+	114	
90-5660-2	BH23 - 01	2'	151 S1+	124	
90-5660-3	BH23 - 02	0'	141 S1+	119	
90-5660-4	BH23 - 02	2'	143 S1+	120	
0-5660-5	BH23 - 03	0'	133 S1+	113	
0-5660-6	BH23 - 03	2'	128	106	
0-5660-7	BH23 - 04	0'	141 S1+	118	
90-5660-8	BH23 - 04	2'	151 S1+	122	
0-5660-9	BH23 - 05	0'	138 S1+	115	
90-5660-10	BH23 - 05	2'	113	93	
90-5660-11	BH23 - 05	4'	135 S1+	113	
CS 880-67700/2-A	Lab Control Sa	ample	111	104	
CSD 880-67700/3-A	Lab Control Sa	ample Dup	116	116	
MB 880-67700/1-A	Method Blank		151 S1+	140 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Vertex Job ID: 890-5660-1 SDG: 23E-05486 Project/Site: MUY WAYNO

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67587/5-A

Matrix: Solid Analysis Batch: 67689 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67587

	IVID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 02:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 02:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 02:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/21/23 16:50	11/28/23 02:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/21/23 16:50	11/28/23 02:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/21/23 16:50	11/28/23 02:00	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	_	11/21/23 16:50	11/28/23 02:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130		11/21/23 16:50	11/28/23 02:00	1

Lab Sample ID: LCS 880-67587/1-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 67587

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08664		mg/Kg		87	70 - 130	
Toluene	0.100	0.09013		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08909		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1706		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08496		mg/Kg		85	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	124	70 - 130

Lab Sample ID: LCSD 880-67587/2-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67587

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09164		mg/Kg		92	70 - 130	6	35
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		97	70 - 130	13	35
o-Xylene	0.100	0.09616		mg/Kg		96	70 - 130	12	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130

Lab Sample ID: 890-5652-A-1-C MS

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 67587

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.0996	0.07634		mg/Kg		76	70 - 130	
Toluene	< 0.00199	U F1	0.0996	0.07498		mg/Kg		75	70 - 130	

QC Sample Results

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

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

Lab Sample ID: 890-5652-A-1-C MS

Lab Sample ID: 890-5652-A-1-D MSD

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 67587

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene < 0.00199 U F1 0.0996 0.06207 F1 62 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 UF1 0.199 0.1307 mg/Kg 66 70 - 130 0.0996 o-Xylene <0.00199 UF1 0.07267 73 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	89	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67587

Matrix: Solid Analysis Batch: 67689 Sample Sample Spike MSD MSD

RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits D 0.100 Benzene <0.00199 U F1 0.06395 F1 mg/Kg 63 70 - 130 18 35 Toluene <0.00199 UF1 0.100 0.06776 F1 mg/Kg 68 70 - 130 10 35 Ethylbenzene <0.00199 UF1 0.100 0.05547 F1 55 70 - 130 11 35 mg/Kg 0.200 m-Xylene & p-Xylene <0.00398 UF1 0.1169 F1 mg/Kg 58 70 - 130 11 35 0.100 <0.00199 U F1 0.06470 F1 65 70 - 130 o-Xylene mg/Kg 12

MSD MSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-67694/5-A

Matrix: Solid

Analysis Batch: 67689

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

Client Sample ID: Method Blank

Prep Batch: 67694

MB MB Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed 11/27/23 12:32 Benzene <0.00200 U 0.00200 mg/Kg 11/27/23 09:14 Toluene <0.00200 U 0.00200 11/27/23 09:14 11/27/23 12:32 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/27/23 09:14 11/27/23 12:32 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/27/23 09:14 11/27/23 12:32 0.00200 11/27/23 12:32 o-Xylene <0.00200 U mg/Kg 11/27/23 09:14 Xylenes, Total <0.00400 U 0.00400 mg/Kg 11/27/23 09:14 11/27/23 12:32

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	11/27/23 09:14	11/27/23 12:32	1
1,4-Difluorobenzene (Surr)	82		70 - 130	11/27/23 09:14	11/27/23 12:32	1

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

Lab Sample ID: MB 880-67700/1-A

Matrix: Solid Analysis Batch: 67682

Prep Batch: 67700 мв мв Analyte Result Qualifier RL Unit Prepared Dil Fac <50.0 U 50.0 11/27/23 08:00 11/27/23 08:18 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

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Prep Type: Total/NA

Client: Vertex

Job ID: 890-5660-1

SDG: 23E-05486

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

Lab Sample ID: MB 880-67700/1-A **Matrix: Solid**

Analysis Batch: 67682

Project/Site: MUY WAYNO

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

Prep Batch: 67700

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/27/23 08:00	11/27/23 08:18	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/27/23 08:00	11/27/23 08:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130	11/27/23 08:00	11/27/23 08:18	1
o-Terphenyl	140	S1+	70 - 130	11/27/23 08:00	11/27/23 08:18	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-67700/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 67682 Prep Batch: 67700

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1104		mg/Kg		110	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1250		mg/Kg		125	70 - 130	
C10 C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-67700/3-A

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 67700

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1077		mg/Kg		108	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1120		mg/Kg		112	70 - 130	11	20	
C10-C28)										

70 - 130

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 116 70 - 130

116

Lab Sample ID: 890-5655-A-1-D MS

Matrix: Solid

o-Terphenyl

Analysis Batch: 67682

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 67700

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.6 U 1000 70 - 130 Gasoline Range Organics 1105 109 mg/Kg (GRO)-C6-C10 <49.6 U F1 1000 1537 F1 Diesel Range Organics (Over mg/Kg 152 70 - 130

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 890-5655-A-1-E MSD

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67700

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.6 U 1000 1087 mg/Kg 107 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.6 U F1 1488 F1 mg/Kg 147 70 - 1303 20

C10-C28)

Matrix: Solid

Analysis Batch: 67682

MSD MSD Qualifier Limits Surrogate %Recovery S1+ 70 - 130 1-Chlorooctane 145 o-Terphenyl 109 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67456/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67658

MB MB

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/22/23 23:11

Lab Sample ID: LCS 880-67456/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Matrix: Solid

Analysis Batch: 67658

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 232.5 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-67456/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 67658

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier %Rec RPD Unit Limits Limit Chloride 250 236.5 95 90 - 110 mg/Kg 20

Lab Sample ID: 890-5660-3 MS Client Sample ID: BH23 - 02 U, **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 67658

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result Limits Unit %Rec Chloride 93 90 - 110 194 251 426.1 mg/Kg

Lab Sample ID: 890-5660-3 MSD Client Sample ID: BH23 - 02 0'

Matrix: Solid

Analysis Batch: 67658

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D 251 93 Chloride 426.0 90 - 110 20 194 mg/Kg 0

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Prep Type: Soluble

QC Association Summary

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO SDG: 23E-05486

GC VOA

Prep Batch: 67587

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batcl
890-5660-1	BH23 - 01	0'	Total/NA	Solid	5035	
890-5660-2	BH23 - 01	2'	Total/NA	Solid	5035	
890-5660-3	BH23 - 02	0'	Total/NA	Solid	5035	
890-5660-4	BH23 - 02	2'	Total/NA	Solid	5035	
890-5660-5	BH23 - 03	0'	Total/NA	Solid	5035	
890-5660-6	BH23 - 03	2'	Total/NA	Solid	5035	
890-5660-7	BH23 - 04	0'	Total/NA	Solid	5035	
890-5660-8	BH23 - 04	2'	Total/NA	Solid	5035	
890-5660-9	BH23 - 05	0'	Total/NA	Solid	5035	
890-5660-10	BH23 - 05	2'	Total/NA	Solid	5035	
890-5660-11	BH23 - 05	4'	Total/NA	Solid	5035	
MB 880-67587/5-A	Method Blank		Total/NA	Solid	5035	
LCS 880-67587/1-A	Lab Control Sa	ample	Total/NA	Solid	5035	
LCSD 880-67587/2-A	Lab Control Sa	ample Dup	Total/NA	Solid	5035	
890-5652-A-1-C MS	Matrix Spike		Total/NA	Solid	5035	
890-5652-A-1-D MSD	Matrix Spike D	uplicate	Total/NA	Solid	5035	

Analysis Batch: 67689

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Total/NA	Solid	8021B	67587
890-5660-2	BH23 - 01	2'	Total/NA	Solid	8021B	67587
890-5660-3	BH23 - 02	0'	Total/NA	Solid	8021B	67587
890-5660-4	BH23 - 02	2'	Total/NA	Solid	8021B	67587
890-5660-5	BH23 - 03	0'	Total/NA	Solid	8021B	67587
890-5660-6	BH23 - 03	2'	Total/NA	Solid	8021B	67587
890-5660-7	BH23 - 04	0'	Total/NA	Solid	8021B	67587
890-5660-8	BH23 - 04	2'	Total/NA	Solid	8021B	67587
890-5660-9	BH23 - 05	0'	Total/NA	Solid	8021B	67587
890-5660-10	BH23 - 05	2'	Total/NA	Solid	8021B	67587
890-5660-11	BH23 - 05	4'	Total/NA	Solid	8021B	67587
MB 880-67587/5-A	Method Blank		Total/NA	Solid	8021B	67587
MB 880-67694/5-A	Method Blank		Total/NA	Solid	8021B	67694
LCS 880-67587/1-A	Lab Control Sa	mple	Total/NA	Solid	8021B	67587
LCSD 880-67587/2-A	Lab Control Sa	mple Dup	Total/NA	Solid	8021B	67587
890-5652-A-1-C MS	Matrix Spike		Total/NA	Solid	8021B	67587
890-5652-A-1-D MSD	Matrix Spike Du	uplicate	Total/NA	Solid	8021B	67587

Prep Batch: 67694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67694/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67873

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Total/NA	Solid	Total BTEX	
890-5660-2	BH23 - 01	2'	Total/NA	Solid	Total BTEX	
890-5660-3	BH23 - 02	0'	Total/NA	Solid	Total BTEX	
890-5660-4	BH23 - 02	2'	Total/NA	Solid	Total BTEX	
890-5660-5	BH23 - 03	0'	Total/NA	Solid	Total BTEX	
890-5660-6	BH23 - 03	2'	Total/NA	Solid	Total BTEX	
890-5660-7	BH23 - 04	0'	Total/NA	Solid	Total BTEX	
890-5660-8	BH23 - 04	2'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Vertex

Project/Site: MUY WAYNO

Job ID: 890-5660-1 SDG: 23E-05486

05486

GC VOA (Continued)

Analysis Batch: 67873 (Continued)

Lab Sample ID	Client Sample II)	Prep Type	Matrix	Method	Prep Batch
890-5660-9	BH23 - 05	0'	Total/NA	Solid	Total BTEX	
890-5660-10	BH23 - 05	2'	Total/NA	Solid	Total BTEX	
890-5660-11	BH23 - 05	4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 67682

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Total/NA	Solid	8015B NM	67700
890-5660-2	BH23 - 01	2'	Total/NA	Solid	8015B NM	67700
890-5660-3	BH23 - 02	0'	Total/NA	Solid	8015B NM	67700
890-5660-4	BH23 - 02	2'	Total/NA	Solid	8015B NM	67700
890-5660-5	BH23 - 03	0'	Total/NA	Solid	8015B NM	67700
890-5660-6	BH23 - 03	2'	Total/NA	Solid	8015B NM	67700
890-5660-7	BH23 - 04	0'	Total/NA	Solid	8015B NM	67700
890-5660-8	BH23 - 04	2'	Total/NA	Solid	8015B NM	67700
890-5660-9	BH23 - 05	0'	Total/NA	Solid	8015B NM	67700
890-5660-10	BH23 - 05	2'	Total/NA	Solid	8015B NM	67700
890-5660-11	BH23 - 05	4'	Total/NA	Solid	8015B NM	67700
MB 880-67700/1-A	Method Blank		Total/NA	Solid	8015B NM	67700
LCS 880-67700/2-A	Lab Control Sa	mple	Total/NA	Solid	8015B NM	67700
LCSD 880-67700/3-A	Lab Control Sa	mple Dup	Total/NA	Solid	8015B NM	67700
890-5655-A-1-D MS	Matrix Spike		Total/NA	Solid	8015B NM	67700
890-5655-A-1-E MSD	Matrix Spike D	uplicate	Total/NA	Solid	8015B NM	67700

Prep Batch: 67700

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Total/NA	Solid	8015NM Prep	
890-5660-2	BH23 - 01	2'	Total/NA	Solid	8015NM Prep	
890-5660-3	BH23 - 02	0'	Total/NA	Solid	8015NM Prep	
890-5660-4	BH23 - 02	2'	Total/NA	Solid	8015NM Prep	
890-5660-5	BH23 - 03	0'	Total/NA	Solid	8015NM Prep	
890-5660-6	BH23 - 03	2'	Total/NA	Solid	8015NM Prep	
890-5660-7	BH23 - 04	0'	Total/NA	Solid	8015NM Prep	
890-5660-8	BH23 - 04	2'	Total/NA	Solid	8015NM Prep	
890-5660-9	BH23 - 05	0'	Total/NA	Solid	8015NM Prep	
890-5660-10	BH23 - 05	2'	Total/NA	Solid	8015NM Prep	
890-5660-11	BH23 - 05	4'	Total/NA	Solid	8015NM Prep	
MB 880-67700/1-A	Method Blank		Total/NA	Solid	8015NM Prep	
LCS 880-67700/2-A	Lab Control Sa	ımple	Total/NA	Solid	8015NM Prep	
LCSD 880-67700/3-A	Lab Control Sa	mple Dup	Total/NA	Solid	8015NM Prep	
890-5655-A-1-D MS	Matrix Spike		Total/NA	Solid	8015NM Prep	
890-5655-A-1-E MSD	Matrix Spike D	uplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67834

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Total/NA	Solid	8015 NM	
890-5660-2	BH23 - 01	2'	Total/NA	Solid	8015 NM	
890-5660-3	BH23 - 02	0'	Total/NA	Solid	8015 NM	
890-5660-4	BH23 - 02	2'	Total/NA	Solid	8015 NM	
890-5660-5	BH23 - 03	0'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Vertex Job ID: 890-5660-1
Project/Site: MUY WAYNO SDG: 23E-05486

GC Semi VOA (Continued)

Analysis Batch: 67834 (Continued)

Lab Sample ID	Client Sample ID		Prep Type	Matrix	Method	Prep Batch
890-5660-6	BH23 - 03	2'	Total/NA	Solid	8015 NM	
890-5660-7	BH23 - 04	0'	Total/NA	Solid	8015 NM	
890-5660-8	BH23 - 04	2'	Total/NA	Solid	8015 NM	
890-5660-9	BH23 - 05	0'	Total/NA	Solid	8015 NM	
890-5660-10	BH23 - 05	2'	Total/NA	Solid	8015 NM	
890-5660-11	BH23 - 05	4'	Total/NA	Solid	8015 NM	

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Leach Batch: 67456

Lab Sample ID	Client Sample	ID	Prep Type	Matrix	Method	Prep Batcl
890-5660-1	BH23 - 01	0'	Soluble	Solid	DI Leach	
890-5660-2	BH23 - 01	2'	Soluble	Solid	DI Leach	
890-5660-3	BH23 - 02	0'	Soluble	Solid	DI Leach	
890-5660-4	BH23 - 02	2'	Soluble	Solid	DI Leach	
890-5660-5	BH23 - 03	0'	Soluble	Solid	DI Leach	
890-5660-6	BH23 - 03	2'	Soluble	Solid	DI Leach	
890-5660-7	BH23 - 04	0'	Soluble	Solid	DI Leach	
890-5660-8	BH23 - 04	2'	Soluble	Solid	DI Leach	
890-5660-9	BH23 - 05	0'	Soluble	Solid	DI Leach	
890-5660-10	BH23 - 05	2'	Soluble	Solid	DI Leach	
890-5660-11	BH23 - 05	4'	Soluble	Solid	DI Leach	
MB 880-67456/1-A	Method Blank		Soluble	Solid	DI Leach	
LCS 880-67456/2-A	Lab Control Sa	ample	Soluble	Solid	DI Leach	
LCSD 880-67456/3-A	Lab Control Sa	ample Dup	Soluble	Solid	DI Leach	
890-5660-3 MS	BH23 - 02	0'	Soluble	Solid	DI Leach	
890-5660-3 MSD	BH23 - 02	0'	Soluble	Solid	DI Leach	

Analysis Batch: 67658

Lab Sample ID	Client Sample I	D	Prep Type	Matrix	Method	Prep Batch
890-5660-1	BH23 - 01	0'	Soluble	Solid	300.0	67456
890-5660-2	BH23 - 01	2'	Soluble	Solid	300.0	67456
890-5660-3	BH23 - 02	0'	Soluble	Solid	300.0	67456
890-5660-4	BH23 - 02	2'	Soluble	Solid	300.0	67456
890-5660-5	BH23 - 03	0'	Soluble	Solid	300.0	67456
890-5660-6	BH23 - 03	2'	Soluble	Solid	300.0	67456
890-5660-7	BH23 - 04	0'	Soluble	Solid	300.0	67456
890-5660-8	BH23 - 04	2'	Soluble	Solid	300.0	67456
890-5660-9	BH23 - 05	0'	Soluble	Solid	300.0	67456
890-5660-10	BH23 - 05	2'	Soluble	Solid	300.0	67456
890-5660-11	BH23 - 05	4'	Soluble	Solid	300.0	67456
MB 880-67456/1-A	Method Blank		Soluble	Solid	300.0	67456
LCS 880-67456/2-A	Lab Control Sar	nple	Soluble	Solid	300.0	67456
LCSD 880-67456/3-A	Lab Control Sar	nple Dup	Soluble	Solid	300.0	67456
890-5660-3 MS	BH23 - 02	0'	Soluble	Solid	300.0	67456
890-5660-3 MSD	BH23 - 02	0'	Soluble	Solid	300.0	67456

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Project/Site: MUY WAYNO

0'

SDG: 23E-05486 Lab Sample ID: 890-5660-1

Client Sample ID: BH23 - 01 Date Collected: 11/16/23 11:00 Date Received: 11/17/23 12:41

Job ID: 890-5660-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 06:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 00:36	CH	EET MID

Client Sample ID: BH23 - 01

2'

Lab Sample ID: 890-5660-2

Matrix: Solid

Date Collected: 11/16/23 11:05 Date Received: 11/17/23 12:41

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 67587 11/21/23 16:50 MNR EET MID Total/NA 8021B 5 mL 11/28/23 08:02 **EET MID** Analysis 1 5 mL 67689 MNR Total/NA Total BTEX 67873 11/28/23 08:02 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 67834 11/27/23 13:46 SM **EET MID** Total/NA 9.96 g 67700 11/27/23 09:32 Prep 8015NM Prep 10 mL TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 67682 11/27/23 13:46 SM **EET MID** Soluble Leach DI Leach 5.03 g 50 mL 67456 11/20/23 15:18 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 67658 11/23/23 00:41 СН **EET MID**

Client Sample ID: BH23 - 02

0'

Lab Sample ID: 890-5660-3

Matrix: Solid

Date Collected: 11/16/23 11:10

Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 08:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 14:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 14:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 00:47	CH	EET MID

Client Sample ID: BH23 - 02

2'

Lab Sample ID: 890-5660-4

Matrix: Solid

Date Collected: 11/16/23 11:15

Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 08:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 08:54	SM	EET MID

Client: Vertex

Project/Site: MUY WAYNO

Lab Sample ID: 890-5660-4

Client Sample ID: BH23 - 02 2' Date Collected: 11/16/23 11:15

Date Received: 11/17/23 12:41

Matrix: Solid

Job ID: 890-5660-1

SDG: 23E-05486

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67834	11/27/23 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 14:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:04	CH	EET MID

0'

Lab Sample ID: 890-5660-5

Client Sample ID: BH23 - 03 Date Collected: 11/16/23 11:20

Date Received: 11/17/23 12:41

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 09:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 09:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 14:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 14:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:09	CH	EET MID

Client Sample ID: BH23 - 03 2' Lab Sample ID: 890-5660-6

Date Collected: 11/16/23 11:25 Date Received: 11/17/23 12:41

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 09:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:26	CH	EET MID

Client Sample ID: BH23 - 04 0'

Analysis

8015B NM

Lab Sample ID: 890-5660-7

SM

Date Collected: 11/16/23 11:30 Date Received: 11/17/23 12:41

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 10:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 10:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67700	11/27/23 09:32	TKC	EET MID

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1 uL

67682

11/27/23 15:58

1 uL

EET MID

Total/NA

Client: Vertex

Project/Site: MUY WAYNO

Client Sample ID: BH23 - 04

0'

Lab Sample ID: 890-5660-7

Matrix: Solid

Job ID: 890-5660-1

SDG: 23E-05486

Date Collected: 11/16/23 11:30 Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 ml	50 ml	67658	11/23/23 01:32	CH	FFT MID

Client Sample ID: BH23 - 04

2'

Lab Sample ID: 890-5660-8

Matrix: Solid

Date Collected: 11/16/23 11:35

Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 10:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 10:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 16:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:38	CH	EET MID

Client Sample ID: BH23 - 05

0'

Lab Sample ID: 890-5660-9

Matrix: Solid

Date Collected: 11/16/23 11:40 Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 11:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 11:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:43	CH	EET MID

Client Sample ID: BH23 - 05

2'

Lab Sample ID: 890-5660-10

Matrix: Solid

Date Collected: 11/16/23 11:45 Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 11:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 11:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 17:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 17:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:49	CH	EET MID

Lab Chronicle

Client: Vertex Job ID: 890-5660-1
Project/Site: MUY WAYNO SDG: 23E-05486

Client Sample ID: BH23 - 05 4' Lab Sample ID: 890-5660-11

Date Collected: 11/16/23 11:50 Matrix: Solid

Date Received: 11/17/23 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	67587	11/21/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/28/23 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67873	11/28/23 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			67834	11/27/23 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67700	11/27/23 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67456	11/20/23 15:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67658	11/23/23 01:55	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Vertex Job ID: 890-5660-1
Project/Site: MUY WAYNO SDG: 23E-05486

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
,	are included in this report, bu	it the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Vertex Job ID: 890-5660-1 Project/Site: MUY WAYNO

SDG: 23E-05486

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Vertex Job ID: 890-5660-1 Proj

oject/Site: MUY WAYNO	SDG: 23E-05486

Lab Sample ID	Client Sample	e ID	Matrix	Collected	Received
890-5660-1	BH23 - 01	0'	Solid	11/16/23 11:00	11/17/23 12:41
890-5660-2	BH23 - 01	2'	Solid	11/16/23 11:05	11/17/23 12:41
890-5660-3	BH23 - 02	0'	Solid	11/16/23 11:10	11/17/23 12:41
890-5660-4	BH23 - 02	2'	Solid	11/16/23 11:15	11/17/23 12:41
890-5660-5	BH23 - 03	0'	Solid	11/16/23 11:20	11/17/23 12:41
890-5660-6	BH23 - 03	2'	Solid	11/16/23 11:25	11/17/23 12:41
890-5660-7	BH23 - 04	0'	Solid	11/16/23 11:30	11/17/23 12:41
890-5660-8	BH23 - 04	2'	Solid	11/16/23 11:35	11/17/23 12:41
890-5660-9	BH23 - 05	0'	Solid	11/16/23 11:40	11/17/23 12:41
890-5660-10	BH23 - 05	2'	Solid	11/16/23 11:45	11/17/23 12:41
890-5660-11	BH23 - 05	4'	Solid	11/16/23 11:50	11/17/23 12:41

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Environment Testing Xenco

💸 eurofins

Chain of Custody
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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Project Manager:	Chance Jix	Nov.	Bill to: (if different)	Zarre.	Creek	Work Orde	Prominents	Company
Company Name:	VE/+CX		Company Name:	2		Program: USI/PSI PRP Br		
Address:			Address:					
City, State ZIP:			City, State ZIP:			evel II Level III	PST/UST TRRP	Level IV
Phone:		Email:		cdixon@vertex.co	ca.	Deliverables: EDD AD:	ADaPT Other:	
Project Name:	May Wayno	Turn	Turn Around		ANALYSIS REQUEST		Preservative Codes	Codes
Project Number:	25E1-05486	Routine	Rush Code	4 90 90			None: NO	DI Water: H ₂ O
Project Location:		Due Date:					Cool: Cool	MeOH: Me
	Hunter Whein		TAT starts the day received by				HCL: HC	HNO 3: HN
PO #:		-	the lab, if received by 4:30pm	1			H2504:H2	NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	No Wet Ice:	Yes No	1			H ₃ PO ¿: HP	
Samples Received Intact:	Yes, No	Thermometer ID:	MMOCT	11	890-5660 Ch	890-5660 Chain of Custody	NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:					Na 25 20 3: Na SO 3	
Sample Custody Seals:	Yes No N/A Temper	Temperature Reading:	7.0.7	X			Zn Acetate+NaOH: Zn	:Zn
Total Containers:	Correct	Corrected Temperature:	20.00	HO E			NaOH+Ascorbic Acid: SAPC	id: SAPC
Cample Identification	Matrix		3	17			Sample Comments	nments
LA COUR		1	Comp Com	3 -				
シャクラーのエ	- 6 Si 2176	125 11.00	1					
BH23-01	2, 1.1	71.05	_					
8H23-02	0	27.30						
BH23-02	2,	22:25						
BH33-03	0,0	11.20						
RH33-03	्न	11.35						
3.H23-184	, io	22.30						
BH33-64	3,	22:25						
BH33-05	0,	17:40						
13H33-05	2,	21.45						
- 345 VOD 7 VS PO	200.8 / 6020:	8RCRA 13PF	PM Texas II Al S	Sb As Ba Be B Cd C	Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Vi K Se	Sr Tl Sn U V Zn	
Circle Method(s) an	Circle Method(s) and Metal(s) to be analyzed	TCLP / SPI	3PLP 6010 : 8RCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ag TI U Hg: 1631/245.1	5.1 / 7470 / 7471	
Notice: Signature of this docum of service. Eurofins Xenco will b of Eurofins Xenco. A minimum of	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tutes a valid purchase or valid not assume any respx oject and a charge of \$5	der from client company to Er onsibility for any losses or exp for each sample submitted to	urofins Xenco, its affiliates and surenses incurred by the client if sure Eurofins Xenco, but not analyze	from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions libility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control reach sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego	nd conditions d the control eviously negotiated.		
Relinquished by: (Signature)	ignature) Receiv	Received by: (Signature)	e) /	Date/Time	Relinquished by: (Signature)	e) Received by: (Signature)		Date/Time
Month		3	1	1/17	1241			
3)	0		4				
S				9				

Relinquished by		Relinquished by	Relinquished by	Empty Kit Relinquished by	Deliverable Requested	Possible Hazard Identification Unconfirmed	Note Since laboratory accred laboratory does not currently raccreditation status should be	BH23 - 05 0' (8t	BH23 - 04 2' (89	BH23 - 04 0' (89	BH23 - 03 2' (89	BH23 - 03 0' (89	BH23 - 02 2' (89	BH23 - 02 0' (89	BH23 - 01 2' (89	BH23 - 01 0' (89		Sample Identification - Client ID (Lab ID)	Site:	Project Name: MUY WAYNO	Email [.]	Phone: 432-704-5440(Tel)	State, Zip TX 79701	Midland	1211 W Florida Ave	Eurofins Environment Testing South Centr	Client Contact: Shipping/Receiving	Client Information	Eurotins Carisbad 1089 N Canal St Carisbad NM 88220 Phone. 575-988-3199 Fax
	8			by	Deliverable Requested I II III IV Other (specify)	ffication	Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.	(890-5660-9)	(890-5660-8)	(890-5660-7)	(890-5660-6)	(890-5660-5)	(890-5660-4)	(890-5660-3)	(890-5660-2)	0' (890-5660-1)		-Client ID (Lab ID)								esting South Centr		(Sub Contract Lab)	Fax: 575-988-3199
	Date/Time	Date/Time:	Date/Time		Prımary Deliverable Rank.		nment Testing South Centr ted above for analysis/tests, tth Central LLC attention im	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23	X	Sample Date	SSOW#	Project #: 89000161	WO #	PO#		TAT Requested (days):	11/27/2023		Phone	Sampler	_
				Date	able Rank. 2		al, LLC places t /matrix being ar imediately If al	11 40 Mountain	11 35 Mountain	11 30 Mountain	11 25 Mountain	11 20 Mountain	11 15 Mountain	11 10 Mountain	11 05 Mountain	11 00 Mountain	X	Sample Time						ys)·	٥				Chain of Custody Record
	0	0	0				he ownership o nalyzed, the sar Il requested acc										100	Sample Type (C=comp, G=grab)											of Cust
	Company	Company	Company				f method analy nples must be spreditations are	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	on Code:	Matrix (W=water S=solld, O=waste/oil, BT=Tissue, A=Air)	270000000000000000000000000000000000000		aunesii 84			40015661946			E-Mail Jessic	Lab PM Kramer	ody R
L	Z	Z	Re	Time [.]	Speci	Samp	te & accre hipped bar current to			V	V	×	×	×	×	×	$\hat{\mathbf{x}}$	Field Filtered Perform MS/N 8015MOD_NM/8	ISD (Y	es or	No)	7.	II TPH	erlo-mer		Accreditations Required (See NELAP - Texas	E-Mail Jessica Kramer@et.eurofinsu	er Jessica	corc
Cooler Temperature	Received by	Received	Received b		Special Instructions	Sample Disposal (ditation ck to the date ret	×	×	×	×	×	×	×	×	×	<u> </u>	8015MOD_Calc								Texas	r@et.	ğ	
	(-\$	\nearrow		ructio	le Disposal (A f Return To Client	complia Eurofi um the	×	×	×	×	×	×	×	×	×		300_ORGFM_2	BD/DI_L	EACH	Chlori	de				lired (S	eurofii		
			abla		ns/QC	(A fee	ance up ns Envi signed	×	×	×	×	×	×	×	×	×		8021B/6036FP_		10D) B	TEX				Ana	ee note)	isus com		
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						may be assessed if samples are retained longer Disposal By Lab Archive For	ent is fo her instr rofins E		14 J	*	4.	24	(کسرد	4	-	4	Ă	Total Number	of col	Barrier Andrews	=	≖	n m o	က ဏ :	Pre	3-068 #	Page Page	COC No 890-18	\$ }
						than	rwarded under ouctions will be provinced to the province of th											Special I	.	L EDA	Ice DI Water	Amchlor Ascorbic Acid	Nitric Acid NaHSO4	NaOH Zn Acetate	Preservation Codes	Job #: 890-5660-1	Page: Page 1 of 2	COC No 890-1831 1	💸 eurofins
ŀ	Com	Com	Com			1 month) Mon	chain-of- provided ting Sou											nstruc		2 Y		S E	Z Z Z	0 0 Z	_				Env
	Company	Company	Company			nth) Months	-custody If the Any changes the Central LLC											Special Instructions/Note		Trizma other (specify)	MCAA	2SO4 3P Dodecahydra	Na2SO3 Na2SO3 Na2S2O3	None AsNaO2	Hexane				Environment Testing

mpty Kit Relinquished by

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inquished by

Project Name
MUY WAYNO

BH23 - 05

BH23 - 05

State Zip⁻ TX, 79701

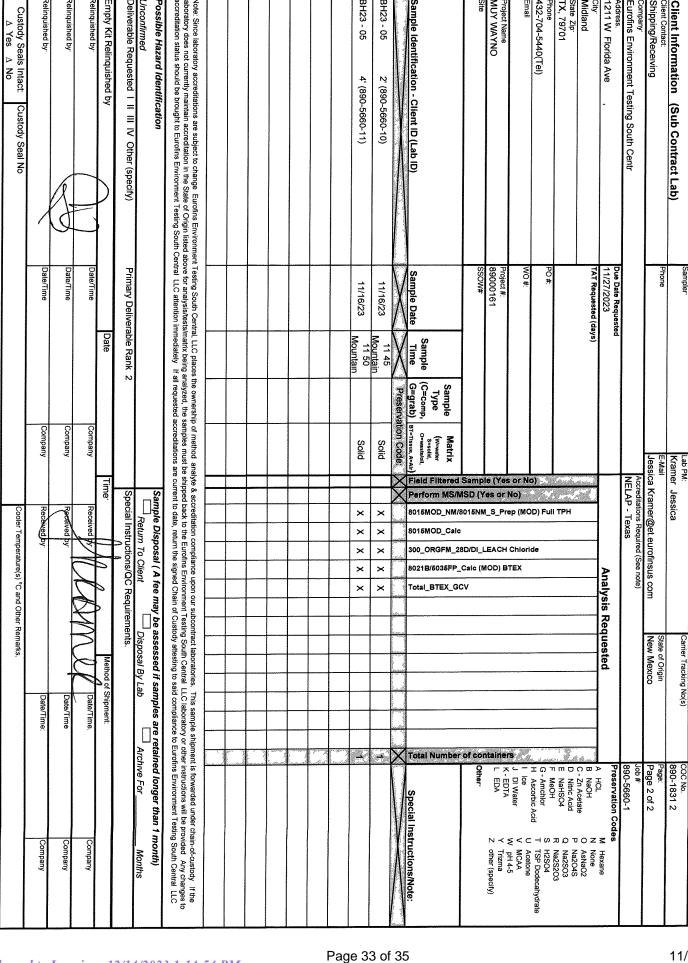
432-704-5440(Tel)

Eurofins Carlsbad

089 N Canal St.

Chain of Custody Record

1089 N Canal St. Carlsbad NM 88220 Bhoos 575 688 3169 Eav. 575 688 3169	Chain of Custody Record	y Record		eurofins Environment Testing
	Complet			
Client Information (Sub Contract Lab)	Sampler	Kramer Jessica	Carrier Tracking No(s)	COC No. 890-1831 2
Client Contact:	Phone	E-Mail	State of Origin	Page:
Shipping/Receiving		Jessica Kramer@et.eurofinsus com	New Mexico	Page 2 of 2
Company:		Accreditations Required (See note)		Job#
Eurofins Environment Testing South Centr		NELAP - Texas		890-5660-1
Address. 1211 W Florida Ave ,	Due Date Requested 11/27/2023	Analysis Requested	quested	Preservation Codes M. Hexane
City: Midland	TAT Requested (days)			B NaOH None C - Zn Acetate O AsNaO2



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5660-1 SDG Number: 23E-05486

Login Number: 5660 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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.	N/A	Refer to Job Narrative for details.
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: 890-5660-1 SDG Number: 23E-05486

Login Number: 5660 **List Source: Eurofins Midland** List Number: 2

List Creation: 11/20/23 10:41 AM

Creator: Kramer, Jessica

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	N/A	

Released to Imaging: 12/14/2023 1:14:54 PM

<6mm (1/4").

<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

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 292838

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326841759
Incident Name	NAPP2326841759 MUY WAYNO 18 CTB @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MUY WAYNO 18 CTB
Date Release Discovered	09/11/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Equipment Failure Pump Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
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.

District I
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 **District IV**

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 292838

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a i e, idivi 07 303	
QUEST	TONS (continued)	
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 292838 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as 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: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i	.e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	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 bases 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 rt does not relieve the operator of responsibility for compliance with any other federal, state, or	
	Name: Garrett Green	

Title: SHE Coordinator

Date: 12/08/2023

Email: garrett.green@exxonmobil.com

I hereby agree and sign off to the above statement

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QUESTIONS, Page 3

Action 292838

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Attached Document	
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 ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (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	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must be provide	ed to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.			
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)			
Chloride (EPA 300.0 or SM4500 CI B)	126		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0		
GRO+DRO (EPA SW-846 Method 8015M)	0		
BTEX (EPA SW-846 Method 8021B or 8260B)	0		
Benzene (EPA SW-846 Method 8021B or 8260B)	0		
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 NMA which includes the anticipated timelines for beginning and completing the remediation.			
On what estimated date will the remediation commence 11/16/2023			
On what date will (or did) the final sampling or liner inspection occur	11/16/2023		
On what date will (or was) the remediation complete(d)	11/16/2023		
What is the estimated surface area (in square feet) that will be reclaimed	0		
What is the estimated volume (in cubic yards) that will be reclaimed	0		
What is the estimated surface area (in square feet) that will be remediated	0		
What is the estimated volume (in cubic yards) that will be remediated	0		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d 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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Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 4

Action 292838

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	It was determined that no remnant impacts exceeding NMOCD's strictest closure criteria remained in the release area and no remedial activities were required. The DFR associated with the site inspection and photo evidence of the release area are included in Appendix C.

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.

I hereby agree and sign off to the above statement

Name: Garrett Green Title: SHE Coordinator

Email: garrett.green@exxonmobil.com

Date: 12/08/2023

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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QUESTIONS, Page 5

Action 292838

QUESTIONS (con	tinuea)
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 292838

QUESTIONS ((continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	292843	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/16/2023	
What was the (estimated) number of samples that were to be gathered	11	
What was the sampling surface area in square feet	333	

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	0			
What was the total volume (cubic yards) remediated	0			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	0			
What was the total volume (in cubic yards) reclaimed	0			
Summarize any additional remediation activities not included by answers (above)	It was determined that no remnant impacts exceeding NMOCD's strictest closure criteria remained in the release area and no remedial activities were required.			

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: SHE Coordinator
Email: garrett.green@exxonmobil.com
Date: 12/08/2023

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QUESTIONS, Page 7

Action 292838

QUESTIONS	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	292838
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 292838

CONDITIONS

Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	292838	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created	By Condition	Condition Date
rhamle	The Remediation Closure Report is Approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	12/14/2023