

Incident Number: nAPP2335435491

Release Assessment and Deferral

Big Eddy Unit DI 9 35H

Unit P, Section 21, Township 21 South, Range 30 East

API: 30-015-42007

County: Eddy

Vertex File Number: 24E-01314

Prepared for:

XTO Energy, Inc.

Prepared by:

Vertex Resource Services Inc.

Date:

October 2024

Release Assessment and Deferral October 2024

Release Assessment and Deferral Big Eddy Unit DI 9 35H Unit P, Section 21, Township 21 South, Range 30 East

API: 30-015-42007 County: Eddy

Prepared for:

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PROJECT MANAGER, REPORT REVIEW

October 2, 2024

October 2, 2024

Date

Release Assessment and Deferral October 2024

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1.0 Introduction

XTO Energy, Inc. (XTO) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment for a produced water and crude oil release that occurred on December 16, 2023, at Big Eddy Unit DI 9 35H API 30-015-42007 (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 December 20, 2023. Incident ID number nAPP2335435491 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 report to obtain approval from NMOCD for deferral of this release, with the understanding that final remediation and closure of the release site will be deferred until such time as all equipment in the deferral area is removed. Reclamation will be completed following remediation, once oil and gas activities are terminated as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on December 16, 2023, due to equipment failure. The incident was reported on December 20, 2023, and involved the release of approximately 5 barrels (bbl) of produced water and 2 bbl of crude oil on the pad around the wellhead. Approximately 7 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 16.6 miles northeast of Loving, New Mexico. The legal location for the site is Unit P, Section 21, Township 21 South, Range 30 East in Eddy County, New Mexico. The release area is located on State property. An aerial photograph and site schematic are presented on Figure 1.

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

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Qa - Alluvium (New Mexico Bureau of Geology and Mineral Resources, 2024). The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with plains, interdunes, and dunes with elevations ranging between 3,000 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 10 and 15 inches. Predominant soil textures around the site are well-drained fine sandy loams and sandy loams with very low runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad.

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4.0 Closure Criteria Determination

The nearest active well to the site is a United States Department of Energy monitoring well 1.06 miles to the northwest (New Mexico Office of the State Engineer, 2024). There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 904 feet west of the site (United States Fish and Wildlife Service, 2024). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

The nearest depth to groundwater reference to the site is a United States Geological Survey monitoring well located approximately 1.12 miles northwest of the location (United States Geological Survey, 2023). Data from 1978 shows the USGS borehole recorded a depth to groundwater of 109 feet below ground surface (bgs). The site is in a region of High Karst Potential (United States Department of the Interior, Bureau of Land Management, 2018). Information pertaining to the depth to ground water determination is included in Appendix B.

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	e: Big Eddy Unit DI 9 35H	V. C0F207	V. 2504720
•	dinates: 32.457752,-103.879543	X: 605307	Y: 3591728
ite spec	ific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	109	feet
	Distance between release and nearest DTGW reference	5,915	feet
	Data of a count DTC/M and a count of	1.12	miles
1	Date of nearest DTGW reference measurement	•	nber 18, 1978
	Depth to Groundwater (secondary reference)	125	feet
	Distance between release and secondary DTGW	6,103	feet
	reference	1.16	miles
	Date of secondary DTGW reference measurement	Janu	ary 1, 1998
2	Within 300 feet of any continuously flowing watercourse	904	feet
	or any other significant watercourse		
3	Within 200 feet of any lakebed, sinkhole or playa lake	5,934	feet
-	(measured from the ordinary high-water mark)	-,	
4	Within 300 feet from an occupied residence, school,	18,697	feet
-	hospital, institution or church	-,	
	i) Within 500 feet of a spring or a private, domestic fresh		
5	water well used by less than five households for		feet
-	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	5,620	feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)
	NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	4,459	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	21,100	feet
			Critical
	lumi.		High
9	Within an unstable area (Karst Map)	High	Medium
			Low
	Distance between release and nearest High Karst	0	feet
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100-		
	year Floodplain)	5,162	feet
11	Soil Type	Fine sandv	loam, sandy loam
12	Ecological Classification	•	amy sand
13	Geology		Alluvium
	01	,	<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'
	THE TOTAL PARTY E (TABLE I) CHOSULE CHILEHA	\50	>100'

Release Assessment and Deferral October 2024

The site is within a region of high karst potential; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the strictest 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			
3,	Chloride	600 mg/kg			
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg			
< 50 feet	BTEX	50 mg/kg			
	Benzene	10 mg/kg			

TDS - total dissolved solids

5.0 Remedial Actions Taken

Inspection and site characterization of the release around the infrastructure was completed by Vertex between April 8 and 26, 2024, including vertical and horizontal delineation. The total impacted area was determined to be 5,006 square feet. The Daily Field Reports (DFRs) associated with the site visits are included in Appendix C. Characterization sample locations and approximate release area are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts began on August 12, 2024, and were finalized on August 29, 2024. A Remediation Closure Report Extension was approved by NMOCD for the incident, which is included in Appendix D. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 61 sample points and consisted of analysis with a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate Titration (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 1 to 10 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The DFRs documenting various phases of the remediation are presented in Appendix C.

Notifications that confirmatory samples were being collected was provided to NMOCD before each sampling event and are included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. A total of 54 base and wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories in Hobbs, NM, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E.

An unmarked cellar was discovered during excavation in the base of the 1 foot excavation south of the wellhead at the approximate location of base sample BS24-07. Excavation of that area did not proceed beyond the originally planned 1 foot depth to avoid disturbance of unknown equipment inside and around the cellar. Photographs of the cellar are

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

BTEX - benzene, toluene, ethylbenzene and xylenes

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included in the August 13, 2024, DFR labeled "Drill casing" (Appendix C). The deferral area was extended west, south, and east, to encompass the wellhead antenna and control box, the cellar, and a recently installed chemical tank, respectively. The deferral area covers the pumpjack, wellhead, chemical tanks, antenna, and associated infrastructure, as presented on Figure 2. All confirmatory samples collected outside the deferral area were below closure criteria. Laboratory results for confirmation base sample BS24-07 exceeded NMOCD strictest criteria for chloride and TPH. Laboratory results for confirmation wall excavation samples WS24-11 and WS24-13 exceeded NMOCD strictest criteria for chloride and TPH, respectively. Confirmation samples BS24-07, WS24-11, and WS24-13 and the area they cover will be deferred until the reclamation of the pad.

6.0 Deferral Request

Vertex recommends no additional remediation action at this time to address the release at Big Eddy Unit DI 9 35H until the equipment on-site is decommissioned and removed. Laboratory analyses of the final confirmatory samples collected outside the deferral area showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 2. Areas of release were remediated and backfilled with local soils. There are no anticipated or imminent risks to human, ecological, or hydrological receptors associated with the release site including the deferral area.

On behalf of XTO Energy, Inc., Vertex requests deferral of the portions of the release that are designated in proximity to equipment, specifically confirmation sample areas BS24-07, WS24-11, and WS24-13. The release and deferral area have been fully delineated with the understanding that should the deferral request be accepted, restoration of this portion of the release will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed following remediation and reclamation activities as per NMAC 19.15.29.12 and 19.15.29.13. The proposed deferral area consists of approximately 764 square feet immediately surrounding the wellhead and associated equipment, as presented on Figure 2. Based on the results of delineation sampling, this area will be excavated to a depth of 4 feet bgs, requiring the removal of approximately 155 cubic yards of soil following equipment removal. The release volume was 7 bbl and was localized to the pad in immediate proximity of production equipment and infrastructure. Well shutdown and partial deconstruction will be required to complete remediation of the release.

Vertex respectfully requests that the incident (nAPP2335435491) be deferred until the production equipment is retired and removed prior to reclamation. XTO certifies that all information in this report and the attachments is correct, and that they have complied with all applicable requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain deferral on the December 16, 2023, release at Big Eddy Unit DI 9 35H.

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

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7.0 References

- Google Inc. (2024). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
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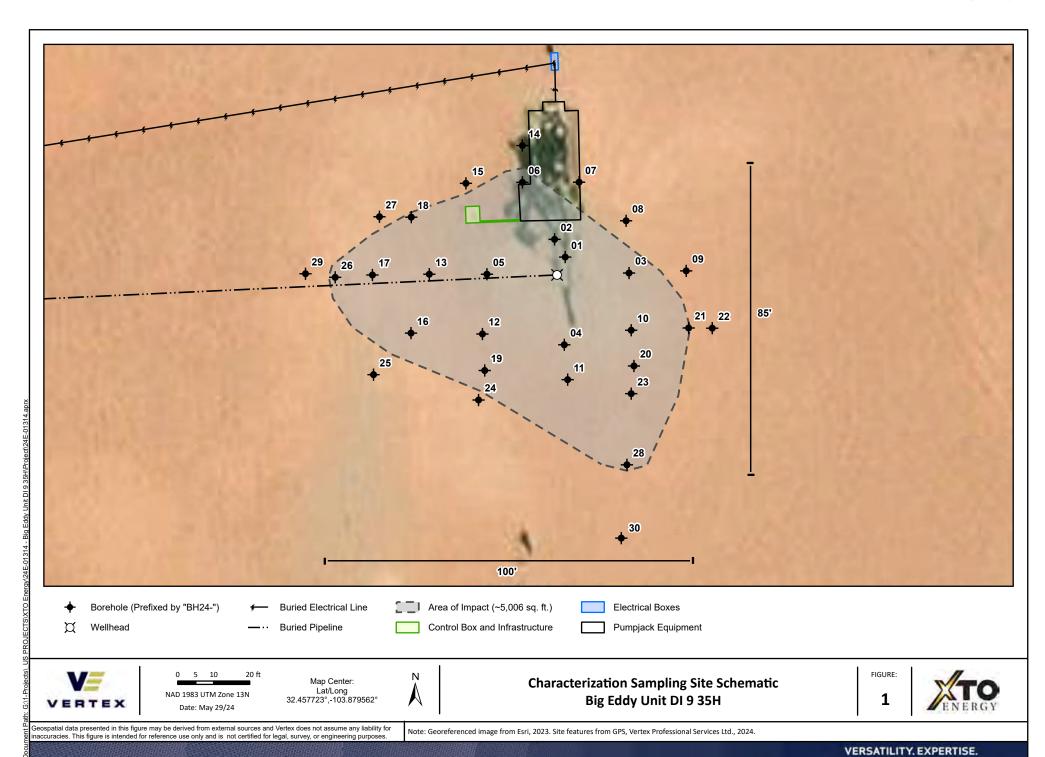
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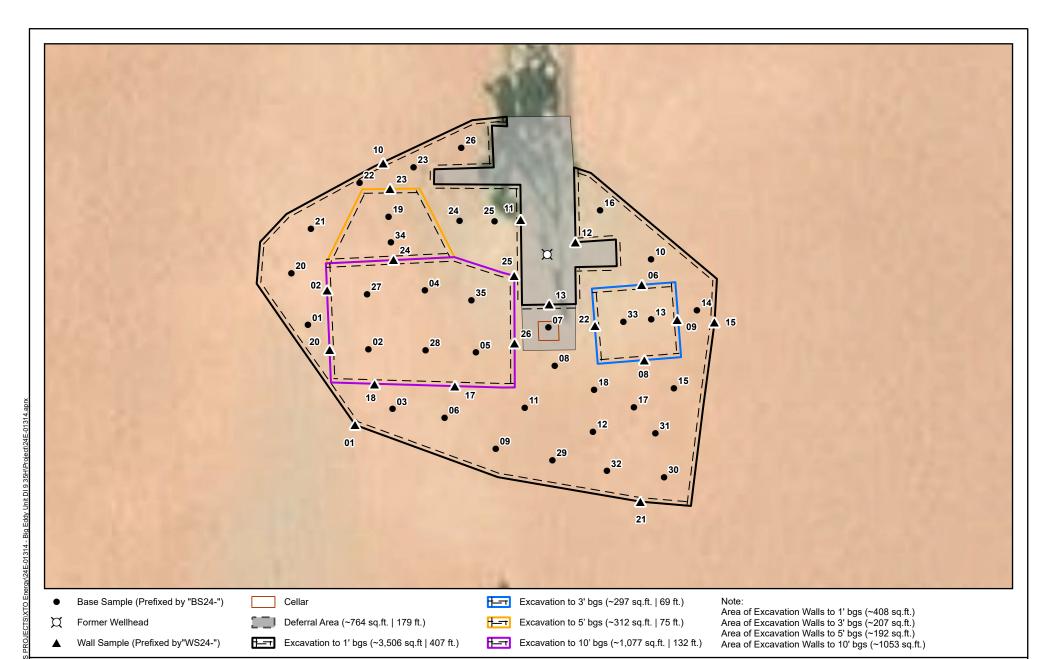
8.0 Limitations

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

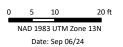
The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement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

FIGURES









Map Center: Lat/Long 32.457716°,-103.879549°



Confirmation Sampling Site Schematic Big Eddy Unit DI 9 35H FIGURE:

2



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

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

TABLES

Client Name: XTO Energy, Inc Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491

Project #: 24E-01314

Lab Reports: 885-2895-1, 885-2902-1, and 885-3596-1

	Tab	le 3. Initial Characteri		•		d Laborato	ry Results				feet bgs		
	Sample Desc	ription	Fi	eld Screeni	ng			Petrole	um Hydro				
			spuno	(3	u	Vol	atile	so		Extractable ပို့			Inorganio
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Gompounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	/ga/ BTEX (Total) (6)	জি Gasoline Range Organics স্ব (GRO)	කී Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	ma Total Petroleum Hydrocarbons (TPH)	(g)/(Ghloride Concentration
	0	April 13, 2024	1,500	-	2,472	ND	0.81	51	4,900	2,600	4,951	7,551	1,900
BH24-01	2	April 13, 2024	420	444	487	ND	ND	ND	240	150	240	390	550
	3.5	April 13, 2024	73	130	219	ND	ND	ND	35	ND	35	35	90
DU24 02	0	April 13, 2024	94	-	3,703	ND	ND	13	5,100	2,000	5,113	7,113	2,100
BH24-02	2	April 13, 2024	5 4	22	72	ND	ND	ND	ND	ND	ND	ND	8.4
	0	April 13, 2024		48	163	ND -	ND -	ND	ND -	ND -	ND -	ND -	11
BH24-03	2	April 13, 2024 April 13, 2024	5 5	35	4,478 808	- ND	- ND	- ND	- ND	- ND	- ND	- ND	460
51127 05	4	April 13, 2024 April 13, 2024	4	50	360	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	270
	0	April 13, 2024	6	9,430	740	-	-	-	-	-	-	-	-
BH24-04	2	April 13, 2024	3	40	663	ND	ND	ND	ND	ND	ND	ND	290
	3	April 13, 2024	2	91	754	ND	ND	ND	13	ND	13	13	320
	0	April 13, 2024	2	97	173	ND	ND	ND	ND	ND	ND	ND	75
BH24-05	2	April 13, 2024	1	22	926	ND	ND	ND	ND	ND	ND	ND	310
БП24-03	4	April 13, 2024	1	42	1,001	ND	ND	ND	ND	ND	ND	ND	430
	6	April 13, 2024	0	22	170	ND	ND	ND	ND	ND	ND	ND	68
	0	April 13, 2024	1	1,090	1,096	ND	ND	ND	89	220	89	309	100
BH24-06	2	April 13, 2024	1	25	ND	ND	ND	ND	ND	ND	ND	ND	7.9
	4	April 13, 2024	1	26	ND	ND	ND	ND	ND	ND	ND	ND	7.7
DU24 07	0	April 13, 2024	1	45	155	ND	ND	ND	ND	ND	ND	ND	28
BH24-07	2	April 13, 2024	1	21	ND 11	ND	ND	ND	ND	ND	ND	ND	5.2
	4	April 13, 2024	1	25	11	ND	ND	ND	ND	ND	ND	ND	7.9
BH24-08	2	April 14, 2024 April 14, 2024	0	37 21	369 450	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	92 120
	0	April 14, 2024	0	35	549	ND	ND	ND	ND	ND	ND	ND	280
BH24-09	2	April 14, 2024	0	44	243	ND	ND	ND	ND	ND	ND	ND	210
	0	April 14, 2024	0	-	1,649	-	-	-	-	-	-	-	-
BH24-10	2	April 14, 2024	0	-	972	ND	ND	ND	ND	ND	ND	ND	650
	4	April 14, 2024	0	32	474	ND	ND	ND	ND	ND	ND	ND	360
BH24-11	0	April 14, 2024	0	44	496	ND	ND	ND	ND	ND	ND	ND	230
D1124 11	2	April 14, 2024	0	51	252	ND	ND	ND	ND	ND	ND	ND	170
	0	April 14, 2024	0	-	2,823	-	-	-	-	-	-	-	-
BH24-12	2	April 14, 2024	0	-	988	ND	ND	ND	ND	ND	ND	ND	620
	4	April 14, 2024	0	65	627	ND	ND	ND	ND	ND	ND	ND	460
BH24-13	0	April 14, 2024	0	-	4,240	- ND	- ND	- ND	- ND	- ND	- ND	- ND	1 200
DHZ4-13	2	April 14, 2024 April 14, 2024	0	- 71	2,131 642	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1,200 470
	0	April 14, 2024 April 14, 2024	0	25	395	ND ND	ND	ND	ND	ND	ND	ND	120
BH24-14	2	April 14, 2024	0	52	395	ND ND	ND	ND	ND ND	ND ND	ND	ND ND	260
D1124 :=	0	April 14, 2024	0	27	333	ND	ND	ND	ND	ND	ND	ND	120
BH24-15	2	April 14, 2024	0	37	471	ND	ND	ND	ND	ND	ND	ND	200
DU2// 16	0	April 25, 2024	-	877	205	-	-	-	-	-	-	-	-
BH24-16	2	April 25, 2024	-	71	115	-	-	-	-	-	-	-	-
BH24-17	0	April 25, 2024	-	246	485	-	-	-	-	-	-	-	-
2/ 1/	2	April 25, 2024	-	57	105	-	-	-	-	-	-	-	-
BH24-18	0	April 25, 2024	-	249	205	-	-	-	-	-	-	-	-
	2	April 25, 2024	-	104	130	-	-	-	-	-	-	-	-
BH24-19	0	April 25, 2024	-	189	310	-	-	-	-	-	-	-	-
	2	April 25, 2024	-	72	138	-	-	-	-	-	-	-	-
BH24-20	0	April 25, 2024	-	180	463	-	-	-	-	-	-	-	-
	2	April 25, 2024	-	58	98	-	-	-	-	-	-	-	-
BH24-21	0 2	April 25, 2024 April 25, 2024	-	135 52	198	-	-	-		-		-	



Client Name: XTO Energy, Inc Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491

Project #: 24E-01314

Lab Reports: 885-2895-1, 885-2902-1, and 885-3596-1

	Tal	ole 3. Initial Characteria	zation San	ple Field	Screen and	d Laborato	ry Results	- Depth to	o Groundv	vater <50	feet bgs		
	Sample Description Field Screening			Petroleum Hydrocarbons									
			<u>s</u>			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)
BH24-22	0	April 26, 2024	-	95	205	ND	ND	ND	13	ND	13	13	130
D112-7 22	2	April 26, 2024	-	32	100	ND	ND	ND	ND	ND	ND	ND	65
BH24-23	0	April 26, 2024	-	374	-	-	-	-	-	-	-	-	-
BH24-24	0	April 26, 2024	-	33	165	ND	ND	ND	ND	ND	ND	ND	570
DITZ4 Z4	2	April 26, 2024	-	43	50	ND	ND	ND	ND	ND	ND	ND	410
BH24-25	0	April 26, 2024	-	96	154	ND	ND	ND	20	ND	20	20	330
D1124 23	2	April 26, 2024	-	33	70	ND	ND	ND	ND	ND	ND	ND	320
BH24-26	0	April 26, 2024	-	197	-	-	-	-	-	-	-	-	-
BH24-27	0	April 26, 2024	-	68	99	ND	ND	ND	ND	ND	ND	ND	150
B1124-27	2	April 26, 2024	-	42	42	ND	ND	ND	ND	ND	ND	ND	310
BH24-28	0	April 26, 2024	-	277	-	-	-	-	-	-	-	-	-
BH24-29	0	April 26, 2024	-	48	125	ND	ND	ND	ND	ND	ND	ND	320
DHZ4-Z9	2	April 26, 2024	-	50	70	ND	ND	ND	ND	ND	ND	ND	25
BH24-30	0	April 26, 2024	-	56	140	ND	ND	ND	ND	ND	ND	ND	470
D1124-30	2	April 26, 2024	-	20	135	ND	ND	ND	ND	ND	ND	ND	540

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

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



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

Client Name: XTO Energy

Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491

Project #: 24E-01314

Lab Reports: H244947, H245199, and H245302

	Tab	le 4. Confirmation San	nple Field	Screen an	d Laborato	ory Results	s - Depth t	o Ground	water <50	feet bgs		
	Sample Desc	cription	Field Sc	reening			Petrole	um Hydro	arbons			
					Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	ය කී සි කී	a Gasoline Range Organics ജ (GRO)	ට Diesel Range Organics ක් (DRO)	Motor Oil Range Organics	(mg/kg)	ਤੇ Total Petroleum ក្នុ Hydrocarbons (TPH)	ය R K රිකි රිකි
BS24-01	1	August 13, 2024	60	225	ND	ND	ND	ND	ND	ND	ND	320
BS24-02	10	August 29, 2024	28	250	ND	ND	ND	ND	ND	ND	ND	96
BS24-02	10	August 13, 2024	55	402	ND	ND	ND	ND	ND	ND	ND	528
BS24-04	10	August 23, 2024	40	370	ND	ND	ND	ND	ND	ND	ND	240
BS24-05	10	August 29, 2024	38	338	ND	ND	ND	ND	ND	ND	ND	96
BS24-06	1	August 13, 2024	62	343	ND	ND	ND	ND	ND	ND	ND	464
BS24-07	1	August 13, 2024	47	398	ND	ND	ND	221	68.8	221	289.8	800
BS24-08	1	August 13, 2024	54	62	ND	ND	ND	ND	ND	ND	ND	176
BS24-09	1	August 13, 2024	73	199	ND	ND	ND	ND	ND	ND	ND	464
BS24-10	1	August 13, 2024	40	218	ND	ND	ND	ND	ND	ND	ND	352
BS24-11	1	August 13, 2024	28	146	ND	ND	ND	ND	ND	ND	ND	320
BS24-12	1	August 13, 2024	61	110	ND	ND	ND	ND	ND	ND	ND	416
BS24-13	3	August 13, 2024	88	363	ND	ND	ND	ND	ND	ND	ND	448
BS24-14	1	August 13, 2024	60	205	ND	ND	ND	ND	ND	ND	ND	272
BS24-15	1	August 13, 2024	53	224	ND	ND	ND	ND	ND	ND	ND	416
BS24-16	1	August 13, 2024	40	306	ND	ND	ND	ND	ND	ND	ND	272
BS24-17	1	August 13, 2024	62	208	ND	ND	ND	ND	ND	ND	ND	272
BS24-18	1	August 13, 2024	65	236	ND	ND	ND	ND	ND	ND	ND	256
BS24-19	5	August 23, 2024	43	485	ND	ND	ND	ND	ND	ND	ND	48
BS24-20	1	August 14, 2024	37	345	ND	ND	ND	ND	ND	ND	ND	176
BS24-21	1	August 14, 2024	42	214	ND	ND	ND	ND	ND	ND	ND	560
BS24-22	1	August 14, 2024	47	412	ND	ND	ND	ND	ND	ND	ND	320
BS24-23	1	August 14, 2024	57	281	ND	ND	ND	ND	ND	ND	ND	368
BS24-24	1	August 14, 2024	39	318	ND	ND	ND	ND	ND	ND	ND	304
BS24-25	1	August 23, 2024	92	468	ND	ND	ND	ND	ND	ND	ND	80
BS24-26	1	August 14, 2024	38	286	ND	ND	ND	45.6	21.3	45.6	66.9	192
BS24-27	10	August 23, 2024	45	193	ND	ND	ND	ND	ND	ND	ND	96
BS24-28	10	August 23, 2024	81	480	ND	ND	ND	ND	ND	ND	ND	32
BS24-29	1	August 29, 2024	43	175	ND	ND	ND	ND	ND	ND	ND	128
BS24-30	1	August 29, 2024	35	200	ND	ND	ND	ND	ND	ND	ND	80
BS24-31	1	August 29, 2024	22	200	ND	ND	ND	ND	ND	ND	ND	64
BS24-32	1	August 29, 2024	29	250	ND	ND	ND	ND	ND	ND	ND	160
BS24-33	3	August 29, 2024	38	225	ND	ND	ND	ND	ND	ND	ND	96
BS24-34	5	August 29, 2024	40	300	ND	ND	ND	ND	ND	ND	ND	176
BS24-35	10	August 29, 2024	50	350	ND	ND	ND	ND	ND	ND	ND	96



Client Name: XTO Energy

Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491

Project #: 24E-01314

Lab Reports: H244947, H245199, and H245302

	Tab	le 4. Confirmation San	nple Field	Screen an	d Laborato	ory Results	s - Depth t	o Ground	water <50	feet bgs		
	Sample Desc	cription	Field Sc	reening			Petrole	um Hydrod	carbons			
					Vola	atile			Extractable)		Inorganic
Sample ID	Depth (ft)	Sample Date	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS24-01	0-1	August 13, 2024	38	139	ND	ND	ND	ND	ND	ND	ND	128
WS24-02	1-10	August 23, 2024	28	185	ND	ND	ND	ND	ND	ND	ND	48
WS24-06	1-3	August 14, 2024	46	222	ND	ND	ND	ND	ND	ND	ND	368
WS24-08	1-3	August 14, 2024	55	239	ND	ND	ND	ND	ND	ND	ND	176
WS24-09	1-3	August 14, 2024	57	315	ND	ND	ND	ND	ND	ND	ND	112
WS24-10	0-1	August 14, 2024	66	315	ND	ND	ND	ND	ND	ND	ND	432
WS24-11	0-1	August 14, 2024	548	870	ND	ND	ND	61.3	11.4	61.3	72.7	1,640
WS24-12	0-1	August 14, 2024	59	650	ND	ND	ND	ND	ND	ND	ND	48
WS24-13	0-1	August 14, 2024	348	382	ND	ND	ND	171	87	171	258	336
WS24-15	0-1	August 14, 2024	45	438	ND	ND	ND	ND	ND	ND	ND	432
WS24-17	1-10	August 23, 2024	61	405	ND	ND	ND	ND	ND	ND	ND	320
WS24-18	1-10	August 23, 2024	44	455	ND	ND	ND	ND	ND	ND	ND	272
WS24-20	1-10	August 23, 2024	38	373	ND	ND	ND	ND	ND	ND	ND	96
WS24-21	0-1	August 29, 2024	29	250	ND	ND	ND	ND	ND	ND	ND	80
WS24-22	1-3	August 29, 2024	40	300	ND	ND	ND	ND	ND	ND	ND	128
WS24-23	1-5	August 29, 2024	54	300	ND	ND	ND	ND	ND	ND	ND	80
WS24-24	5-10	August 29, 2024	32	375	ND	ND	ND	ND	ND	ND	ND	160
WS24-25	1-10	August 29, 2024	45	425	ND	ND	ND	ND	ND	ND	ND	128
WS24-26	1-10	August 29, 2024	47	413	ND	ND	ND	ND	ND	ND	ND	96

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

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

Bold and purple shaded indicates exceedance outside of NMOCD Closure Criteria and in Deferral Area



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

APPENDIX A - NMOCD C-141 Report

Location:	Big Eddy Unit DI 9 35H		
Spill Date:	12/16/2023		
	Area 1		
Approximate A	rea =	3611.80	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	2.34	bbls
Total Produced	Water =	5.46	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oi	=	2.34	bbls
Total Produced	Water =	5.46	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	2.10	bbls
Total Produced	Water =	4.90	bbls

<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 296618

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	296618
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2335435491				
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Received				

ocation of Release Source					
Please answer all the questions in this group.					
Site Name	Big Eddy Unit DI 9 35H				
Date Release Discovered	12/16/2023				
Surface Owner	State				

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

lature and Volume of Release	
laterial(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 5 BBL Recovered: 5 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Phone:(505) 334-6178 Fax:(505) 334-6170

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 296618

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 e, NIVI 07 303
QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 296618 Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	[5]
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Melanie Collins Title: Regulatory Analyst

Email: Melanie.Collins@exxonmobil.com

Date: 12/20/2023

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

QUESTIONS, Page 3

Action 296618

Operator:		OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	296618
		Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS (continued)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	No	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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

CONDITIONS

Action 296618

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	296618
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/20/2023

APPENDIX B – Closure Criteria Research Documentation

APPENDIX C – Daily Field Reports



Client:	XTO Energy Inc. (US)	Inspection Date:	4/14/2024
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	4/15/2024 2:06 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			
Arrived at Site	4/14/2024 7:16 AM		
Departed Site	4/14/2024 5:05 PM		
Field Notes			

- **7:51** Completed JSA on arrival. On site to continue delineation.
- **9:31** Mapped infrastructure and proposed deferral request area on collector. Identified additional sampling points, mapped points in Arc Collector, and swept sampling areas with magnetic locator prior to ground disturbance.
- 19:42 Advanced boreholes BH24-08 through BH24-15 to attempt horizontal delineation. Samples were collected at 0 and 2 feet bgs.
- **19:46** Field screening results for samples from BH24-08, BH24-09, BH24-11, BH24-14, and BH24-15 were below strictest criteria for chloride and TPH. Horizontal delineation completed to north pending laboratory results.
- **19:49** Field screening results from BH24-10, BH24-12, and BH24-13 exceeded threshold for chloride. Borehole depths were increased and samples collected at 4 feet bgs to confirm vertical delineation in high karst area.

Next Steps & Recommendations

1 Continue delineation.



Site Photos





Northeast of wellhead facing southwest. Advanced BH24-08 north of BH24-03.

Viewing Direction: Northwest



Southeast of wellhead facing northwest. Advanced BH24-10 southeast of BH24-03.

Viewing Direction: West



East of wellhead facing west. Advanced BH24-09 east of BH24-03.

Viewing Direction: North



South of wellhead facing north. Advanced BH24-11 south of BH24-04.







Southwest of wellhead facing northeast. Advanced BH24-12 west of BH24-04.

Descriptive Photo - 6 Viewing Direction: Edule: Descriptive and of weathers factory uses. Advanced BHOK-Vis granted BHOK-DE, Create Advanced Lating uses. Advanced BHOK-Vis granted BHOK-DE, Lating Address, Long-103,879687

Viewing Direction: East

West of wellhead facing east. Advanced BH24-13 west of BH24-05.

Viewing Direction: South



Northwest of pump jack facing south. Advanced BH24-14 north of BH24-06.

Viewing Direction: East



West of pump jack facing east. Advanced BH24 -15 west of BH24-06.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client	XTO Energy Inc. (US)	Inspection Date	8/14/2024
Site Location Name	Big Eddy Unit DI 9 35H	API#	
Client Contact Name	Amy Ruth	Project Owner	
Client Contact Phone #	432-661-0571	Project Manager	
Project Reference #			
Unique Project ID			

	Summary of Times		
Arrived at Site	8/14/2024 7:10 AM		
Departed Site			

Field Notes

- **7:10** On site safety meeting and daily walk through.
- 7:10 Complete excavation via hand digging under lines that run east to west in the western 3ft excavation area
- 13:25 Excavation is complete
- 13:25 Confirmation sampling is complete and was done so between 8:00 and 11:00
- 13:40 All samples aside from WS24-11-13 (which were deferred walls) are below criteria and all samples were jarred on site.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: South



West side of excavation facing south

Viewing Direction: South



BS24-04 was excavated to 8ft bgs on accident by operator while cleaning out the area

Viewing Direction: North



West side of excavation facing north

Viewing Direction: North



3-8 ft excavation area facing north





NWof deferral area



West side of deferral area facing east



South deferral area with drill casing



East side of excavation facing north





East 3ft excavation area



East side federal area facing west

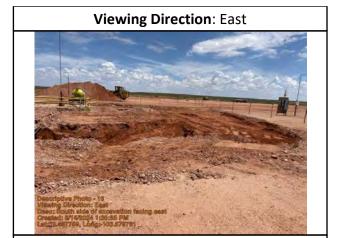


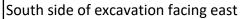
East excavation area facing south



South side of excavation facing west









SE corner facing NW



Daily Site Visit Signature

Inspector: Wyatt Wadleigh

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	8/29/2024
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	8/30/2024 10:54 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			
Arrived at Site	8/29/2024 5:56 AM		
Departed Site	8/29/2024 5:47 PM		
Field Notes			

- 6:45 Completed JSA and conducted safety meeting with Standard Safety work crew on arrival. Swept work areas with magnetic locator prior to ground disturbance. Planned to slope south and west walls of 10 feet bgs excavation back 15 feet for stability. Planned to connect 5 and 10 feet bgs excavations with hand tools because a pipeline divided them.
- 7:46 Contacted Kent at XTO and received approval to proceed with work.
- 9:53 Work crew sloped south and west walls of excavation to 10 feet bgs as planned, allowing access for sampling.
- 9:56 Collected confirmation samples from excavation surfaces as the became safely accessible. All confirmation samples were 5-point composites representing areas no greater than 200 square feet. Confirmation samples were collected as needed to supplement original sampling events to address changes of excavation.
- 10:02 Collected confirmation base and wall samples BS24-33 and WS24-22 from excavation to 3 feet bgs southeast of wellhead. Collected confirmation base and wall samples BS24-02, BS24-05, BS24-35, WS24-25, and WS24-26 from excavation to 10 feet bgs.
- 10:04 Collected confirmation base and wall samples BS24-29, BS24-30, BS24-31, BS24-32, and WS24-21 from expanded excavation to 1 feet bgs southeast of wellhead.
- 14:42 Work crew connected 5 and 10 feet excavations. Confirmation base and wall samples BS24-34 and WS24-23 were collected from excavation to 5 feet bgs. Confirmation wall sample WS24-24 was collected between 5 and 10 feet excavation depths.
- 17:33 Standard Safety crew cleaned up excavation, installed cribbing under flow lines for support, and replaced fences.



17:35 Field screening was completed using silver nitrate titration. Both standard and diluted tests were completed for each sample. Field screening results for all confirmation base and wall samples were below strictest criteria for chloride and TPH. Excavation and confirmation sampling completed pending laboratory results.

Next Steps & Recommendations

1 Send samples to lab.



Site Photos





Northeast of wellhead facing west.

Viewing Direction: North



Southeast of wellhead facing north. Collected confirmation samples BS24-33 and WS24-22 from excavation to 3 feet bgs.







West-southwest of wellhead facing east.
Sloped south and west walls of excavation to
10 feet bgs.

Viewing Direction: Northeast



West-southwest of wellhead facing northeast. Sloped south and west walls of excavation to 10 feet bgs.

Viewing Direction: North



Southwest of wellhead facing north. Collected confirmation samples BS24-05, BS24-35, WS24-25, and WS24-26 from base/walls of excavation to 10 feet bgs.

Viewing Direction: Northwest



South-southwest of wellhead facing northwest. Collected confirmation samples BS24-02, BS24-05, and BS24-35 from base of excavation to 10 feet bgs.







South-southwest of wellhead facing east. Collected confirmation samples BS24-29, BS24-30, BS24-32, and WS24-21 from base/wall of excavation to 1 feet bgs.

Viewing Direction: Northeast



Southeast of wellhead facing northeast. Collected confirmation samples BS24-29, BS24-30, BS24-31, BS24-32, and WS24-21 from base/wall of excavation to 1 feet bgs.







East -southeast Lp of wellhead facing northeast. Collected confirmation samples BS24-30, BS24-31, BS24-32, and WS24-21 from base/wall of excavation to 1 feet bgs.

Viewing Direction: Southwest



West of pump jack facing southwest. Collected BS24-34 and WS24-23 from excavation to 5 feet bgs.

Viewing Direction: North



Southwest of pump jack facing north. Collected WS24-24 from 5-10 feet bgs wall between excavation depths.

Viewing Direction: West



Southeast corner of excavation to 1 feet bgs facing west. Excavation completed.







Southeast corner of excavation to 1 feet bgs facing northwest. Excavation completed.



Southeast corner of excavation to 1 feet bgs facing north. Excavation completed.

Viewing Direction: Northwest



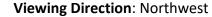
Southeast corner of excavation to 3 feet bgs facing northwest. Excavation completed.

Viewing Direction: North



South of excavation to 3 feet bgs facing north. Excavation completed.







Immediately southwest of wellhead facing northwest over 1 feet bgs excavation. Excavation completed.



Southwest of pump jack facing east over 1 feet bgs excavation. Excavation completed.





Northeast corner of excavation to 5 feet bgs facing southwest. Excavation completed.

Viewing Direction: Southeast



Northeast corner of excavation to 5 feet bgs facing southeast. Excavation completed.







West edge of excavation to 10 feet bgs facing east. Excavation completed.



West edge of excavation to 10 feet bgs facing southeast. Excavation completed.

Viewing Direction: Northwest



South edge of excavation to 10 feet bgs facing northwest. Excavation completed.

Viewing Direction: North



South edge of excavation to 10 feet bgs facing north. Excavation completed.







South edge of excavation to 10 feet bgs facing northeast. Excavation completed.



Southeast corner of excavation to 10 feet bgs facing northwest. Excavation completed.

Viewing Direction: Southwest



Northeast corner of excavation to 10 feet bgs facing southwest. Excavation completed.

Viewing Direction: West



East edge of excavation to 10 feet bgs facing west. Excavation completed.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

APPENDIX D – Notifications

XTO Extension Request - Big Eddy Unit DI 9 35H NAPP2335435491

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

Fri 4/5/2024 8:19 AM

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

Cc:Ruth, Amy <amy.ruth@exxonmobil.com>;Garcia, Amanda <amanda.garcia@exxonmobil.com>;Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>;Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>;Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

RE: Incident #NAPP2335435491

Alan,

Your request for a 90-day extension to **July 4th**, **2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

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



From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Thursday, April 4, 2024 3:39 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO Extension Request - Big Eddy Unit DI 9 35H

Scott Rodgers • Environmental Specialist – Adv.

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



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

Sent: Thursday, April 4, 2024 3:30 PM

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

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

Subject: [EXTERNAL] XTO Extension Request - Big Eddy Unit DI 9 35H

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

Good afternoon,

XTO is requesting an extension for the current deadline to complete remedial activities and submitting a report required in 19.15.29.12.B.(1) NMAC at the Big Eddy Unit DI 9 35H, incident number NAPP2335435491. The closure deadline was March 15, 2024, however, we had some recent staffing changes involving a couple of departures and while delegating certain tasks, this incident became an oversight and was missed on our end. In order to complete all remedial activities and submit a report, XTO requests an extension until July 5, 2024.

Please contact me with any questions or concerns.

Alan Romero

Environmental Advisor
Permian BU – New Mexico-Delaware
ExxonMobil Upstream Oil & Gas Unconventional
Direct: (575) 988-3383
alan.romero1@exxonmobil.com

XTO ENERGY, INC. - An ExxonMobil Subsidiary

3104 E. Greene Street | Carlsbad, New Mexico 88220



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

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

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

QUESTIONS

Action 372221

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372221
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites		
Incident ID (n#)	nAPP2335435491	
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Approved	

Location of Release Source	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/13/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Wyatt Wadleigh (832) 392-4807	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

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

CONDITIONS

Action 372221

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372221
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/9/2024

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

QUESTIONS

Action 372223

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372223
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites		
Incident ID (n#)	nAPP2335435491	
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Approved	

Location of Release Source	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Wyatt Wadleigh (832) 392-4807	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

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

CONDITIONS

Action 372223

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372223
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/9/2024

District III

<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

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

QUESTIONS

Action 372224

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372224
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Wyatt Wadleigh (832) 392-4807	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

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

CONDITIONS

Action 372224

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372224
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/9/2024

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

QUESTIONS

Action 372225

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372225
F	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/16/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Wyatt Wadleigh (832) 392-4807	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

District II

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

CONDITIONS

Action 372225

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	372225
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By	Condition	Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/9/2024

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

QUESTIONS

Action 374303

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374303
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source		
Site Name	BIG EDDY UNIT DI 9 35H	
Date Release Discovered	12/16/2023	
Surface Owner	State	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	575.361.3561	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

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

CONDITIONS

Action 374303

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	374303
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created B		Condition Date
aromer	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/20/2024

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

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

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

QUESTIONS

Action 375869

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	375869
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source		
Site Name	BIG EDDY UNIT DI 9 35H	
Date Release Discovered	12/16/2023	
Surface Owner	State	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/23/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 miles. Turn left onto Wipp rd, and drive north and northeast for 5.7 miles. Turn left on Louis Whitlock rd, and drive north for 0.8 miles. Turn left on lease rd and drive 3.5 miles west. Turn right on lease rd and drive 1.5 miles north. Turn left on lease rd and drive 2.6 miles west and northwest to facility and well pad.	

District II

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

CONDITIONS

Action 375869

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	375869
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created B		Condition Date
aromer	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/20/2024

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

QUESTIONS

Action 377404

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	377404
ı		Action Type:
ı		[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites		
Incident ID (n#)	nAPP2335435491	
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Approved	

Location of Release Source		
Site Name	BIG EDDY UNIT DI 9 35H	
Date Release Discovered	12/16/2023	
Surface Owner	State	

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	5,000		
What is the estimated number of samples that will be gathered	25		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024		
Time sampling will commence	08:00 AM		
Please provide any information necessary for observers to contact samplers	575.361.3561		
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m		

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

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

CONDITIONS

Action 377404

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	377404
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created B	/ Condition	Condition Date
aromer	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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

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

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

QUESTIONS

Action 377412

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	377412
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites		
Incident ID (n#)	nAPP2335435491	
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Approved	

Location of Release Source		
Site Name	BIG EDDY UNIT DI 9 35H	
Date Release Discovered	12/16/2023	
Surface Owner	State	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/29/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	575.361.3561	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m	

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

CONDITIONS

Action 377412

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	377412
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
aromero	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/26/2024

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

QUESTIONS

Action 378464

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	378464
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	5,000	
What is the estimated number of samples that will be gathered	25	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561	
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m	

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

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

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

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

CONDITIONS

Action 378464

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	378464
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
cbrown1	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/27/2024

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

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

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

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

QUESTIONS

Action 379092

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379092
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source		
Site Name	BIG EDDY UNIT DI 9 35H	
Date Release Discovered	12/16/2023	
Surface Owner	State	

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	5,000		
What is the estimated number of samples that will be gathered	25		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/03/2024		
Time sampling will commence	08:00 AM		
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561		
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m		

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

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

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

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

CONDITIONS

Action 379092

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379092
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

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

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 379093

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379093
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites		
Incident ID (n#)	nAPP2335435491	
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Approved	

Location of Release Source			
Site Name	BIG EDDY UNIT DI 9 35H		
Date Release Discovered	12/16/2023		
Surface Owner	State		

Sampling Event General Information					
Please answer all the questions in this group.					
What is the sampling surface area in square feet	5,000				
What is the estimated number of samples that will be gathered	25				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024				
Time sampling will commence	08:00 AM				
Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561				
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m				

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

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

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

CONDITIONS

Action 379093

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379093
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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

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

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

Incident Status

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

QUESTIONS

Action 379094

OFFECTIONS

QUESTIONS								
Operator: XTO ENERGY, INC	OGRID: 5380							
6401 Holiday Hill Road Midland, TX 79707	Action Number: 379094							
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)							
QUESTIONS								
Prerequisites								
Incident ID (n#)	nAPP2335435491							
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0							
Incident Type	Produced Water Release							

Location of Release Source								
Site Name	BIG EDDY UNIT DI 9 35H							
Date Release Discovered	12/16/2023							
Surface Owner	State							

Remediation Plan Approved

Sampling Event General Information								
Please answer all the questions in this group.								
What is the sampling surface area in square feet	5,000							
What is the estimated number of samples that will be gathered	25							
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024							
Time sampling will commence	08:00 AM							

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Sally Carttar 575.361.3561
Please provide any information necessary for navigation to sampling site	From intersection of US-285 and NM-31, drive east on NM-31 for 7.7 miles. Turn right onto NM-128 E, and continue on NM-128 E east and southeast for 11 m

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 379094

CONDITIONS

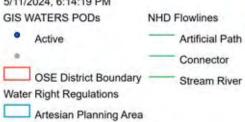
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	379094
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms







Water Column/Average Depth to Water

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

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

closed)

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

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

(In feet)

		POD		_										
POD Number	Code	Sub-	County	_	Q Q 16 4		Twe	Dnσ	X	Y	DistancaDa	nthWallDan	Wa thWater Col	ater
<u>C 02722</u>	Coue	CUB	ED				21S	30E	604435	3593203*	1713	592	in water Cor	uiiiii
C 03726 POD3		CUB	ED	4	3 2	20	21S	30E	603463	3592652	2062	166		
C 03773 POD1	C	CUB	ED	4	2 2	32	21S	30E	604039	3589799	2308	55		
<u>C 03774 POD1</u>	C	CUB	ED	2	4 2	32	21S	30E	604039	3589799	2308	32		
<u>C 03772 POD1</u>	C	CUB	ED	2	4 2	32	21S	30E	603859	3589714	2479	30		
<u>C 03772 POD2</u>	C	CUB	ED	4	2 2	32	21S	30E	603850	3589707	2491	30		
<u>C 03772 POD3</u>	C	CUB	ED	4	2 2	32	21S	30E	603840	3589699	2502	30		
<u>C 03772 POD4</u>	C	CUB	ED	4	2 2	32	21S	30E	603824	3589692	2518	30		
<u>C 03772 POD5</u>	C	CUB	ED	4	2 2	32	21S	30E	603823	3589681	2528	30		
<u>C 03772 POD6</u>	C	CUB	ED	4	2 2	32	21S	30E	603814	3589666	2545	30		
C 03772 POD7	C	CUB	ED	4	2 2	32	21S	30E	603805	3589655	2559	30		
C 03772 POD8	C	CUB	ED	4	2 2	32	21S	30E	603797	3589636	2579	30		
C 03726 POD1		CUB	ED	3	2 4	19	21S	30E	602039	3592182	3299		220	
C 03234 EXPLORE		CUB	ED	1	2 3	35	21S	30E	607695	3589207*	3472	410		
C 03625 POD1		CUB	ED	1	4 4	18	21S	30E	602108	3593530	3671	310	118	192
C 03726 POD2		CUB	ED	3	4 3	18	21S	30E	601214	3593389	4417	210		
C 03624 POD1		CUB	ED	3	2 3	18	21S	30E	601286	3593689	4473	370	110	260
<u>C 04504 POD1</u>		CUB	ED	2	4 1	18	21S	30E	601436	3594476	4747	32		
<u>C 04504 POD3</u>		CUB	ED	4	2 1	18	21S	30E	601377	3594598	4866	62		
C 04504 POD4		CUB	ED	2	2 1	18	21S	30E	601362	3594709	4944	32		

Average Depth to Water: 149 feet
Minimum Depth: 110 feet
Maximum Depth: 220 feet

Record Count: 20

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 605307 **Northing (Y):** 3591728 **Radius:** 5000

*UTM location was derived from PLSS - see Help

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

6/10/24 1:46 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Active & Inactive Points of Diversion

(with Ownership Information)

	(acre ft j	per annum)			Well	(R=POD has been replaced and no longer serves this file, C=the file is closed)		rs are 1= rs are sn q q q	nallest		=SW 4=SE) gest)	(NAD	983 UTM in me
WR File Nbr <u>C 02722</u>		oversion Owner 0 U.S. DEPT. OF ENERGY, WIPP	County ED	POD Number © 02722	Tag	Code Grant	Source		4 Sec			X 604435	Y 3593203*
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	C 03726 POD3			Shallow	4 3 2	2 20	218	30E	603463	3592652
C 03773	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	C 03773 POD1		С	Shallow	4 2 2	2 32	218	30E	604038	3589799
<u>C 03774</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	C 03774 POD1		C	Shallow	2 4 2	2 32	218	30E	604038	3589799
<u>C 03772</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	C 03772 POD1		C	Shallow	2 4 2	2 32	218	30E	603859	3589714
			ED	C 03772 POD2		C	Shallow	4 2 2	2 32	218	30E	603849	3589707
			ED	C 03772 POD3		C	Shallow	4 2 2	2 32	218	30E	603840	3589699
			ED	C 03772 POD4		C	Shallow	4 2 2	2 32	218	30E	603823	3589692
			ED	C 03772 POD5		C	Shallow	4 2 2	2 32	218	30E	603822	3589681
			ED	C 03772 POD6		С	Shallow	4 2 2	2 32	218	30E	603813	3589666
			ED	C 03772 POD7		C	Shallow	4 2 2	2 32	218	30E	603805	3589655
			ED	C 03772 POD8		C	Shallow	4 2 2	2 32	218	30E	603796	3589636
<u>C 03726</u>	CUB MON	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 03726 POD1			Shallow	3 2 4	4 19	218	30E	602039	3592182
C 03234	CUB MON	0 U.S. DEPART OF ENERGY	ED	C 03234 EXPLORE			Artesian	1 2 3	3 35	218	30E	607695	3589207*
<u>C 04420</u>	CUB MON	0 TETRA TECH INC	ED	<u>C 04420 POD1</u>	NA			3 4 4	4 32	218	30E	603624	3588504
C 03625	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 03625 POD1			Shallow	1 4 4	4 18	218	30E	602108	3593530
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	C 03726 POD2			Shallow	3 4 3	3 18	218	30E	601213	3593389
<u>C 03624</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 03624 POD1			Shallow	3 2 3	3 18	218	30E	601286	3593689
C 03363	C STK	3 MENDY WATTS	ED	<u>C 03363</u>			Shallow	4 4 4	4 25	218	29E	601615	3589198
<u>CP 00648</u>	CP IND	1451 INTREPID POTASH-NEW MEXICO LLC	ED	C 03672 POD1				3 2 3	3 18	218	30E	601209	3593779
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	C 04504 POD1	NA			2 4	1 18	218	30E	601436	3594476
			ED	C 04504 POD3				4 2	1 18	218	30E	601376	3594598
<u>C 04674</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 04674 POD 8	NA			1 4	1 18	218	30E	601139	3594281
			ED	C 04674 POD 9				1 4	1 18	218	30E	601148	3594314
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	C 04504 POD4	NA			2 2	1 18	218	30E	601362	3594709
C 04674	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 7</u>	NA			1 4	1 18	218	30E	601053	3594276
Record Count:	26												

Record Count: 26

UTMNAD83 Radius Search (in meters):

Easting (X): 605307 **Northing (Y):** 3591728 **Radius:** 5000

Sorted by: Distance

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

6/10/24 1:46 PM ACTIVE & INACTIVE POINTS OF DI

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



Water Right Summary

WR File Number: C 03773 Subbasin: CUB

Cross Reference: -

Primary Purpose: CLS **CLOSED FILE**

Primary Status: CLS **CLOSED FILE**

Total Acres: Subfile: Header: -

Total Diversion: Cause/Case: -

> SCHLUMBERGER TECHNOLOGY CORP Owner:

Contact: VIRGILIO COCIANNI

Documents on File

			Sta	tus		From/			
Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
583076	CLOSE	2016-02-18	CLS	CLS	RENUMBERED TO: RA- 12368POD1	Т	0	0	0
552040	EXPL	2014-08-05	PMT	LOG	C 03773 POD1	T	0	0	

Place of Use

256 64 Q16 Q4Sec Tws Rng Acres Diversion CU Use Priority **Status Other Location Desc** 4 2 2 32 21S 30E CLS CLS

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

6/10/24 1:52 PM WATER RIGHT SUMMARY



Transaction Summary

EXPL Permit To Explore

Transaction Number: 552040 **Transaction Desc:** C 03773 POD1 **File Date:** 08/04/2014

Primary Status: PMT Permit

Secondary Status: LOG Well Log Received

Person Assigned: ******

Applicant: SCHLUMBERGER TECHNOLOGY CORP

Contact: VIRGILIO COCIANNI

Events

get images	Date 08/04/2014	Type APP	Description Application Received	Comment *	Processed By ******
	08/05/2014	FTN	Finalize non-published Trans.		*****
	08/06/2014	CN5	Meter Installation Request		*****
	08/28/2014	QAT	Quality Assurance Completed	SQ2	*****
get images	09/12/2014	LOG	Well Log Received	*C-3773 POD1	*****
	02/06/2015	QAT	Quality Assurance Completed	DATA	*****
	04/21/2015	QAT	Quality Assurance Completed	IMAGE	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive Purpose of Use
C 03773	0	0	POL POLLUTION CONTROL WELL
**Point of Diversion			
C 03773 POD1		604039	3589799

Remarks

"FORMER DOWELL SCHLUMBER FACILITY, 507 EAST RICHEY AVENUE, ARTESIA, NM 88210"

Conditions

- A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceding calendar months.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed twenty (20) cumulative days, and well shall be plugged or capped on

- or before, unless a permit to use water from this well is acquired from the Office
- C **DittlerState Engined** must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

 Approval Code:
 A - Approved

 Action Date:
 08/05/2014

 Log Due Date:
 08/31/2015

State Engineer: Scott A. Verhines, P.

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

6/10/24 1:52 PM

TRANSACTION SUMMARY

 $M \leftarrow P M$

Logout Refresh Page All

View...

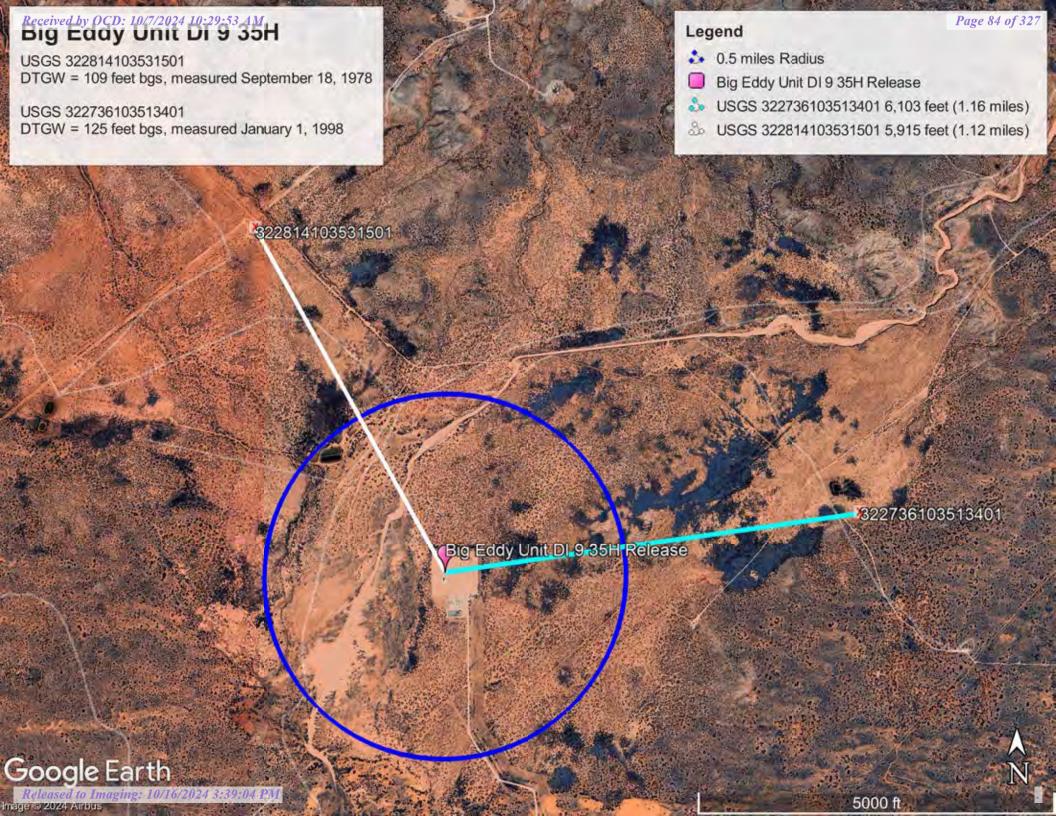
Edit...

Send to...

File Cabinet: WR [Show Full Index]

WR_ID	DB_File_Number	TRN_NBR	Event	Comment
C 03773 552040 2491225	C 03773	552040 2014-08-04 EXPL	2491225 2014-09-12 LOG	

1 / 5 showdoc.do 100% WELL OWNER NAME(S) PHONE (OPTIONAL) GENERAL AND WELL LOCATI Schlumberger Technology Corporation WELL OWNER MAILING ADDRESS 105 Industrial Boulevard Sugar Land Sugar Land TX DEGREES MINUTES SECONDS WELL 32. · ACCURACY REQUIRED: ONE TENTH OF A SEC LOCATION LATITUDE DATUM REQUIRED: WGS 84 (FROM GPS) LONGITUDE 103. DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS TOWNSHIP, RANGE) WHERE AVAILABLE NAME OF LICENSED DRILLER NAME OF WELL DRILLING COM! LICENSE NUMBER WD-1210 Bryan Nydoske National EWP DRULLING STARTED DRILLING ENDED DEPTH WATER FIRST ENCOUNT DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) 8-22-14 8-22-14 55 61 NA. STATIC WATER LEVEL IN COMP. COMPLETED WELL IS C ARTESIAN C DRY HOLE SHALLOW (UNCONFINED) NA. DRILLING & CASING INFORMATION 0 C MUD DRILLING FLUID AIR ADDITIVES - SPECIFY: hone DRILLING METHOD. OTHER - SPECIFY: 0 ROTARY C HAMMER C CABLE TOOL Auger DEPTH (feet bgl) CASING MATERIAL AND/OR BORE HOLE CASING CASING CASING GRADE FROM TO CONNECTION INSIDE DIAM. THICK DIAM (include each casing string, and TYPE (inch (inches) (inches) note sections of screen) 0 15 121/4 PVC 40 Flush 4 PVC 15 55 12 1/4 Flush 4 40 55 60 12 1/4 PVC Flush 4 40 DEPTH (feet bgl) LIST ANNULAR SEAL MATERIAL AND BORE HOLE AMOUNT DIAM, (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) LAR MATERIAL FROM TO See Attached





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322814103531501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322814103531501 21S.30E.21.1211 WIPP-27

Eddy County, New Mexico
Latitude 32°28'18.87", Longitude 103°53'20.58" NAD83
Land-surface elevation 3,200 feet above NGVD29
The depth of the hole is 588 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement		? Measuring agency	? Source of measurement	? Water- level approval status	
1978-09-18	3		62610		3401.00	NGVD29	1		S	USGS	9	5	Α
1978-09-18	3	[62611		3402.58	NAVD88	1		S	USGS	9	5	Α
1978-09-18	3	П	72019	109.00			1		S	USGS	9	5	Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

USA.gov

Page Last Modified: 2024-05-11 20:34:50 EDT

0.3 0.26 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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- Full News

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322736103513401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322736103513401 21S.30E.22.42430

Eddy County, New Mexico
Latitude 32°27'36", Longitude 103°51'34" NAD27
Land-surface elevation 3,189 feet above NAVD88
The depth of the well is 220 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aguifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
959-04-15		D	62610		3083.27	NGVD29	1	Z			
959-04-15		D	62611		3084.85	NAVD88	1	Z			
959-04-15		D	72019	104.15			1	Z			
972-09-25		D	62610		3075.92	NGVD29	1	Z			
972-09-25		D	62611		3077.50	NAVD88	1	Z			
972-09-25		D	72019	111.50			1	Z			
976-03-17		D	62610		3066.10	NGVD29	1	Z			
976-03-17		D	62611		3067.68	NAVD88	1	Z			
976-03-17		D	72019	121.32			1	Z			
1976-12-08		D	62610		3070.74	NGVD29	1	Z			
1976-12-08		D	62611		3072.32	NAVD88	1	Z			
1976-12-08		D	72019	116.68			1	Z			
1983-01-18		D	62610		3068.67	NGVD29	1	Z			
1983-01-18		D	62611		3070.25	NAVD88	1	Z			
1983-01-18		D	72019	118.75			1	Z			
.987-10-15		D	62610		3063.29	NGVD29	1	Z			
1987-10-15		D	62611		3064.87	NAVD88	1	Z			
1987-10-15		D	72019	124.13			1	Z			
1988-03-18		D	62610		3062.66	NGVD29	1	Z			
1988-03-18		D	62611		3064.24	NAVD88	1	Z			
1988-03-18		D	72019	124.76			1	Z			
992-12-09		D	62610		3063.18	NGVD29	1	S			
992-12-09		D	62611		3064.76	NAVD88	1	S			
992-12-09		D	72019	124.24			1	S			
.998-01-28		D	62610		3062.02	NGVD29	1	S			
998-01-28		D	62611		3063.60	NAVD88	1	S			
1998-01-28		D	72019	125.40			1	S			

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
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Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-05-11 20:39:41 EDT

0.28 0.24 nadww02





Water Right Summary

WR File Number: C 03726

Subbasin: CUB **Cross Reference:**

Primary Purpose: MON MONITORING WELL

Primary Status:

Total Acres: Subfile: Header: -

Total Diversion: Cause/Case:

> FOTH INFRASTRUCTURE & ENVIROMT Agent:

Contact: RICHARD SCHOWENGERDT

Owner: INTREPID POTASH-NEW MEXICO LLC

Q

KATIE KELLER Contact:

Documents on File

From/ Status Transaction Desc. To **Diversion Consumptive** Acres 2014-02-27 PMT LOG C 03726 POD1-3 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag										Other Location Desc
<u>C 03726 POD1</u>		Shallow	3	2	4	19	21S	30E	602039	3592182	IP-WW-12
C 03726 POD2		Shallow	3	4	3	18	21S	30E	601214	3593389	IP-WW-13
<u>C 03726 POD3</u>		Shallow	4	3	2	20	21S	30E	603463	3592652	IP-WW-14

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WATER RIGHT SUMMARY 5/29/24 2:53 PM

Big Eddy Unit DI 9 35 H Intermittent Stream 904 feet



May 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

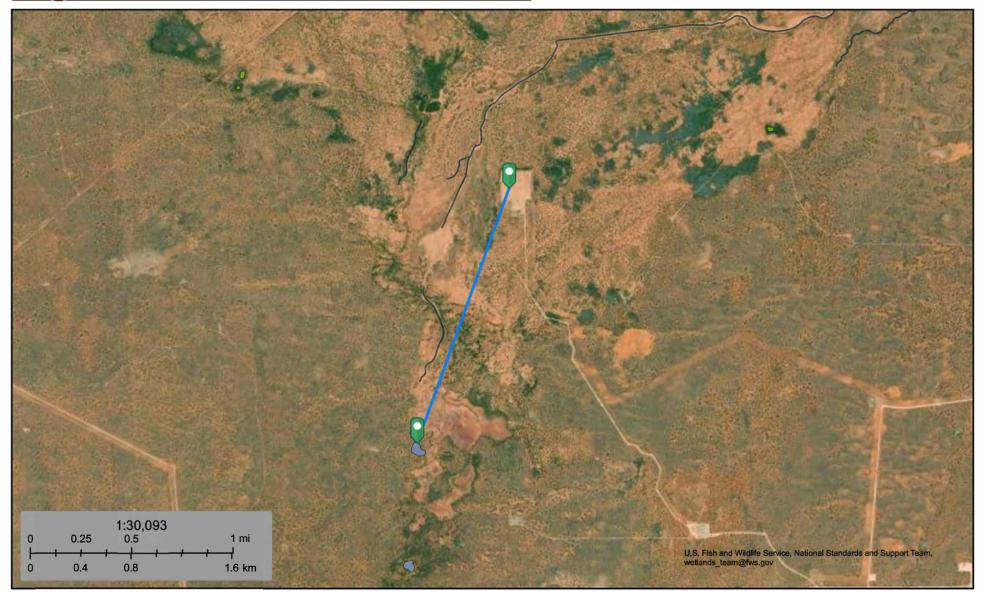
Other



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.



Big Eddy Unit DI 9 35 H Pond 5,934 feet



May 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

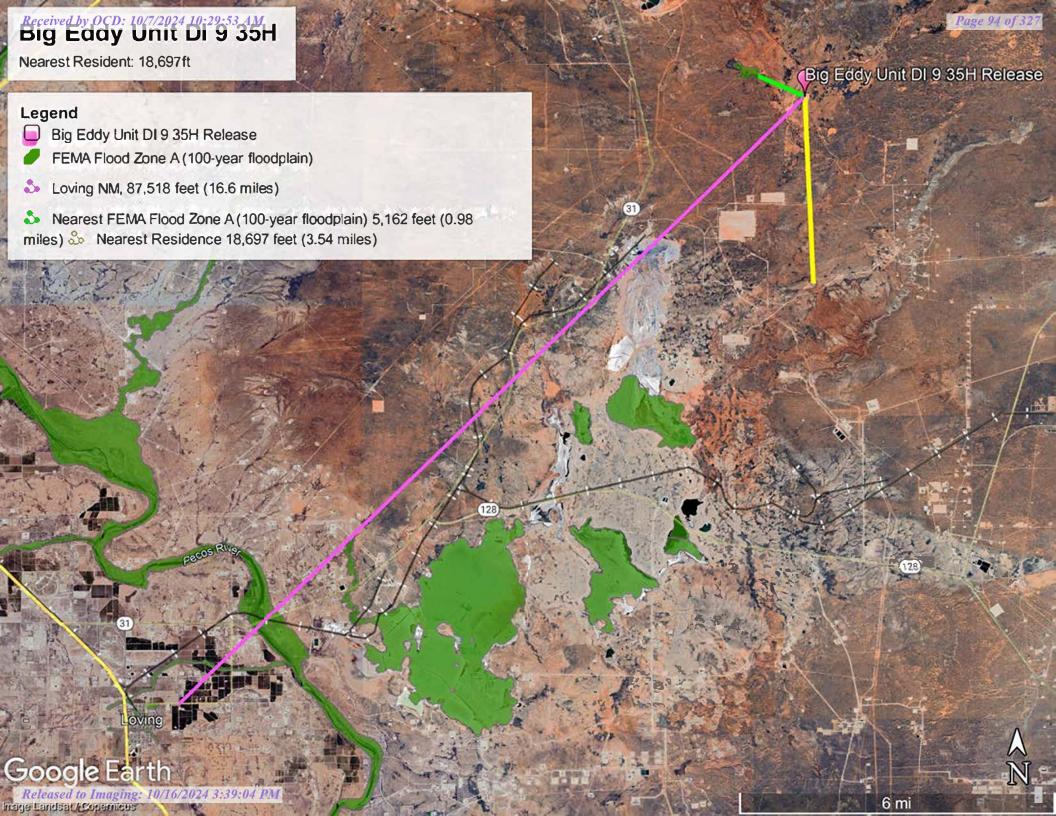
Freshwater Pond

Lake

Other

Riverine

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





Active & Inactive Points of Diversion

(with Ownership Information)

	(acre ft p	er annum)			Well	(R=POD has been replaced and no longer serves this file, C=the file is closed)	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) q q q					(NAD83 UTM in meters)		
WR File Nbr <u>C 02722</u>		version Owner 0 U.S. DEPT. OF ENERGY, WIPP	County ED	POD Number <u>C 02722</u>	Tag	Code Grant	Source	6416 4 1 2 1				X 04435	Y 3593203*	Distance 1713
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	C 03726 POD3			Shallow	4 3 2	20	21S	30E 6	03463	3592652	2062
<u>C 03773</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	C 03773 POD1		С	Shallow	4 2 2	32	21S	30E 6	04038	3589799	2308
<u>C 03774</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03774 POD1</u>		C	Shallow	2 4 2	32	21S	30E 6	04038	3589799	2308
<u>C 03772</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	C 03772 POD1		C	Shallow	2 4 2	32	21S	30E 6	03859	3589714	2479
			ED	<u>C 03772 POD2</u>		C	Shallow	4 2 2	32	21S	30E 6	03849	3589707	2491
			ED	<u>C 03772 POD3</u>		C	Shallow	4 2 2	32	218	30E 6	03840	3589699	2502
			ED	<u>C 03772 POD4</u>		С	Shallow	4 2 2	32	21S	30E 6	03823	3589692	2518
			ED	<u>C 03772 POD5</u>		С	Shallow	4 2 2	32	21S	30E 6	03822	3589681	2528
			ED	C 03772 POD6		С	Shallow	4 2 2	32	21S	30E 6	03813	3589666	2545
			ED	C 03772 POD7		С	Shallow	4 2 2	32	21S	30E 6	03805	3589655	2559
			ED	C 03772 POD8		С	Shallow	4 2 2	32	21S	30E 6	03796	3589636	2579
<u>C 03726</u>	CUB MON	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 03726 POD1			Shallow	3 2 4	19	21S	30E 6	02039	3592182	3299
<u>C 03234</u>	CUB MON	0 U.S. DEPART OF ENERGY	ED	C 03234 EXPLORE			Artesian	1 2 3	35	21S	30E 6	07695	3589207*	3472
<u>C 04420</u>	CUB MON	0 TETRA TECH INC	ED	<u>C 04420 POD1</u>	NA			3 4 4	32	21S	30E 6	03624	3588504	3636
<u>C 03625</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	C 03625 POD1			Shallow	1 4 4	18	218	30E 6	02108	3593530	3671
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	C 03726 POD2			Shallow	3 4 3	18	21S	30E 6	01213	3593389	4417
<u>C 03624</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03624 POD1</u>			Shallow	3 2 3	18	218	30E 6	01286	3593689	4473
<u>C 03363</u>	C STK	3 MENDY WATTS	ED	<u>C 03363</u>			Shallow	4 4 4	25	21S	29E 6	01615	3589198	4474
<u>CP 00648</u>	CP IND	1451 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03672 POD1</u>				3 2 3	18	21S	30E 6	01209	3593779	4582
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	<u>C 04504 POD1</u>	NA			2 4 1	18	21S	30E 6	01436	3594476	4747
			ED	<u>C 04504 POD3</u>				4 2 1	18	218	30E 6	01376	3594598	4866
<u>C 04674</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 8</u>	NA			1 4 1	18	21S	30E 6	01139	3594281	4887
			ED	<u>C 04674 POD 9</u>				1 4 1	18	21S	30E 6	01148	3594314	4897
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	<u>C 04504 POD4</u>	NA			2 2 1	18	21S	30E 6	01362	3594709	4944
<u>C 04674</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 7</u>	NA			1 4 1	18	21S	30E 6	01053	3594276	4958

Regritized by OFM: 10/7/2024; 10/2024;

Record Count: 26

UTMNAD83 Radius Search (in meters):

Easting (X): 605307 **Northing (Y):** 3591728 **Radius:** 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

6/10/24 1:46 PM ACTIVE & INACTIVE POINTS OF DIVERSION



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

Drill Finish Date:

PCW Rcv Date:

Depth Well:

 \mathbf{X}

C 02722

21S 30E 21

604435 3593203*

Driller License:

1292 **Driller Company:** BENTLE WATER WELL SERVICE

Driller Name:

Casing Size:

Drill Start Date: Log File Date:

12/31/1978 Plug Date:

Source:

Pump Type:

5.50

Pipe Discharge Size:

Estimated Yield:

592 feet Depth Water:

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6/10/24 1:58 PM

POINT OF DIVERSION SUMMARY

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



Water Right Summary

WR File Number: C 02722 Subbasin: CUB Cross Reference:

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: U.S. DEPT. OF ENERGY, WIPP

Contact: DOUGLAS C. LYNN

Documents on File

			Status			From/			
Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
186747	REPAR	2000-07-26	CAN	CAN	C 02722	T	0	0	
186744	DCL 2	000-07-26	DCL	PRC	C 02722	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 C 02722
 1 2 1 21 21S 30E
 604435 3593203*

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

Source

Acres Diversion CU Use Priority Source Description 0 MON GW

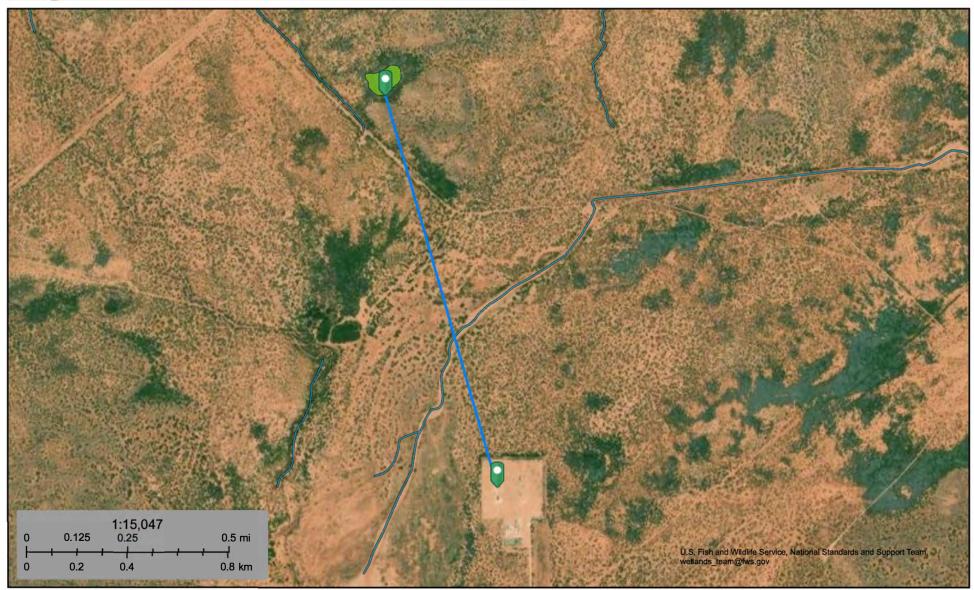
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6/10/24 1:59 PM

WATER RIGHT SUMMARY



Big Eddy Unit DI 9 35 H Wetland 4,459 feet



May 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

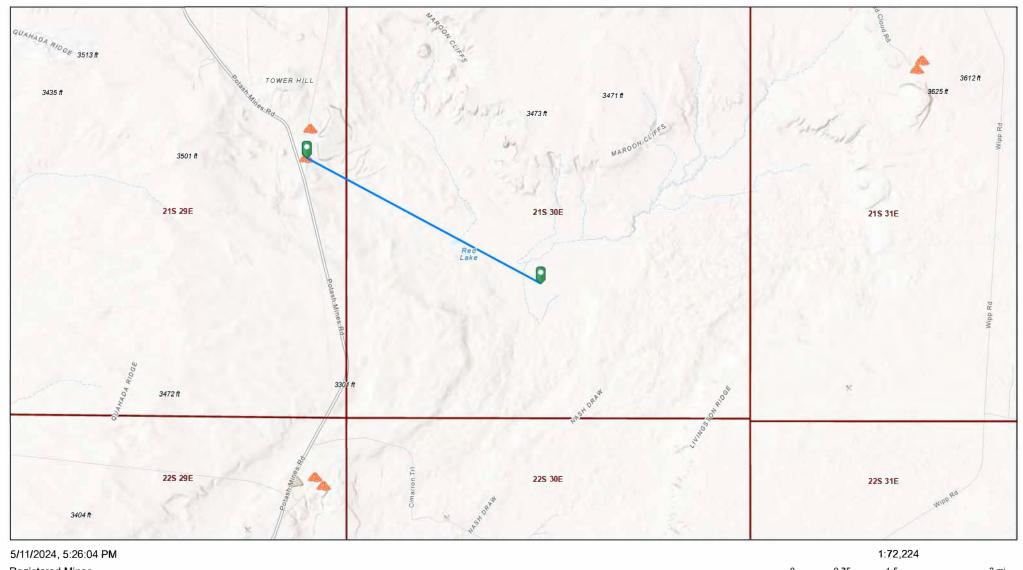
Lake

Other

Riverine

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Big Eddy Unit DI 9 35 H Nearest Mine 21,100 feet



Registered Mines

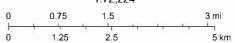
* Aggregate, Stone etc.



Salt

Salt

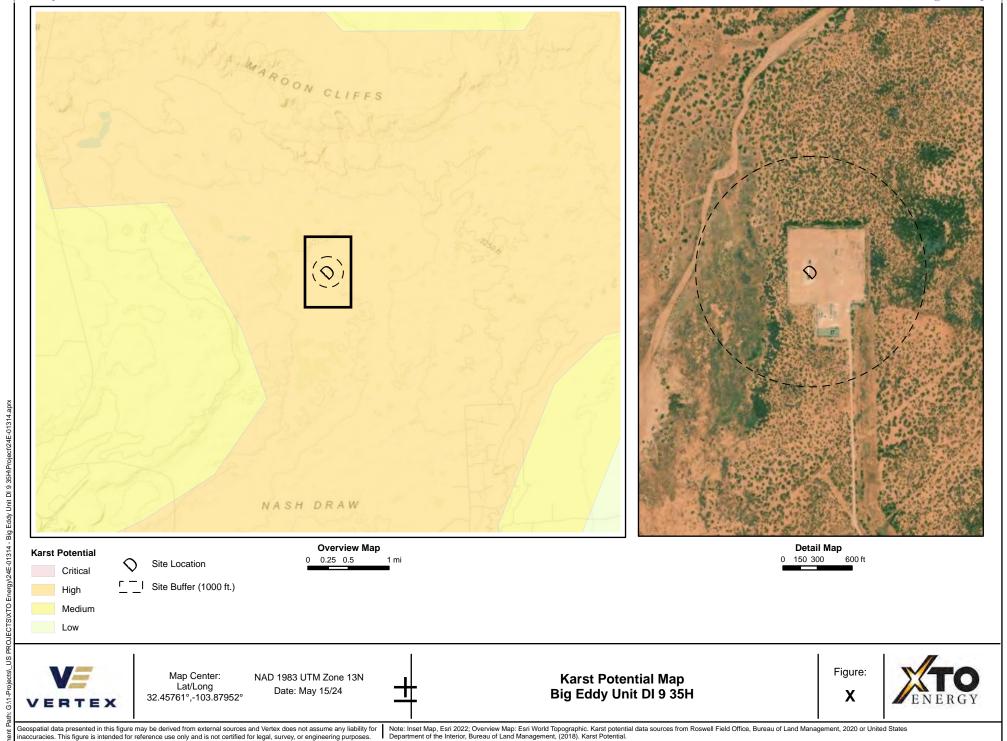
PLSS Townships



U.S. BLM, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, BLM

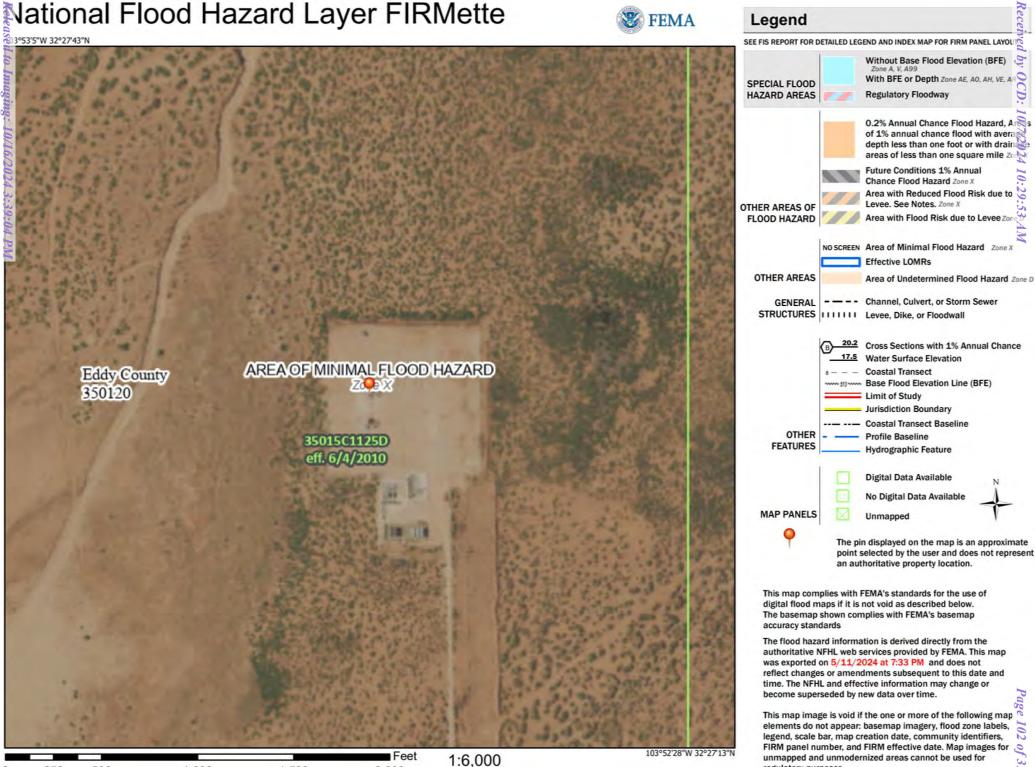
EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)



Released to Imaging: 10/16/2024 3:39:04 PM

VERSATILITY. EXPERTISE.



250

500

1.000

1.500

2,000

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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AF Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drain areas of less than one square mile Zo **Future Conditions 1% Annual**

Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zor

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE)

Jurisdiction Boundary --- Coastal Transect Baseline

Profile Baseline Hydrographic Feature

Digital Data Available

No Digital Data Available

Unmapped

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/11/2024 at 7:33 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.



VRCS

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



Contents

Preface	2
Soil Map	
Soil Map	
Legend	
Map Unit Legend	
Map Unit Descriptions	
Eddy Area, New Mexico	
PD—Pajarito-Dune land complex, 0 to 3 percent slopes	



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

v

Gravel Pit

..

Gravelly Spot

0

Landfill

٨

Lava Flow

Marsh or swamp

衆

Mine or Quarry

0

Miscellaneous Water
Perennial Water

0

Rock Outcrop

į.

Saline Spot

Sodic Spot

• • •

Sandy Spot

0

Severely Eroded Spot

Sinkhole

Slide or Slip

Ø

8

Spoil Area

۵

Stony Spot

00

Very Stony Spot

8

Wet Spot Other

Special Line Features

Water Features

~

Streams and Canals

Transportation

ransp

Rails

~

Interstate Highways

US Routes

~

Major Roads

 \sim

Local Roads

Background

100

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI						
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	23.8	100.0%						
Totals for Area of Interest		23.8	100.0%						

Map Unit Descriptions

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

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

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

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

Custom Soil Resource Report

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.

Custom Soil Resource Report

Eddy Area, New Mexico

PD—Pajarito-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w55 Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 46 percent

Dune land: 45 percent Minor components: 9 percent

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

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam H2 - 9 to 36 inches: fine sandy loam H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Custom Soil Resource Report

Description of Dune Land

Setting

Landform: Dune fields

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Largo

Percent of map unit: 4 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No



Ecological site R070BD003NM Loamy Sand

Accessed: 09/02/2024

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

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

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

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

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

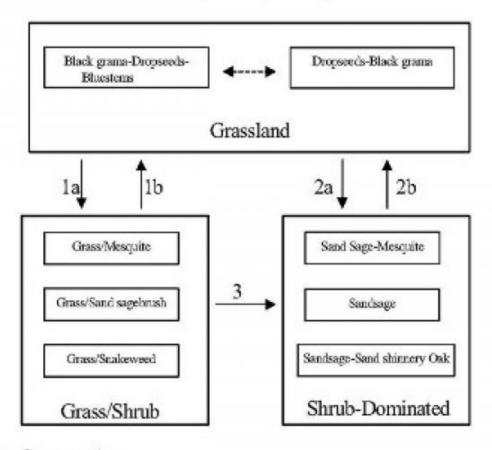
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

J	an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C)	0	3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shimory oak *Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			61–123	
	little bluestem	scsc	Schizachyrium scoparium	61–123	_
2	Warm Season	<u>-</u>	•	37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season			37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	<u>-</u>	•	123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	<u>-</u>	•	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season			123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine				
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	_
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	-	•	61–123	

	sand sagebrush	ARFI2	Artemisia filifolia	61–123	-
	Havard oak	QUHA3	Quercus havardii	61–123	_
11	Shrub			34–61	
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	_
	featherplume	DAFO	Dalea formosa	37–61	_
12	Shrub			37–61	
	jointfir	EPHED	Ephedra	37–61	_
	littleleaf ratany	KRER	Krameria erecta	37–61	_
13	Other Shrubs			37–61	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	_
Forb					
14	Forb			61–123	
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	_
	Indian blanket	GAPU	Gaillardia pulchella	61–123	_
	globemallow	SPHAE	Sphaeralcea	61–123	_
15	Forb			12–37	
	woolly groundsel	PACA15	Packera cana	12–37	_
16	Forb			61–123	
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	_
	woolly plantain	PLPA2	Plantago patagonica	61–123	_
17	Other Forbs	•		37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	_

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

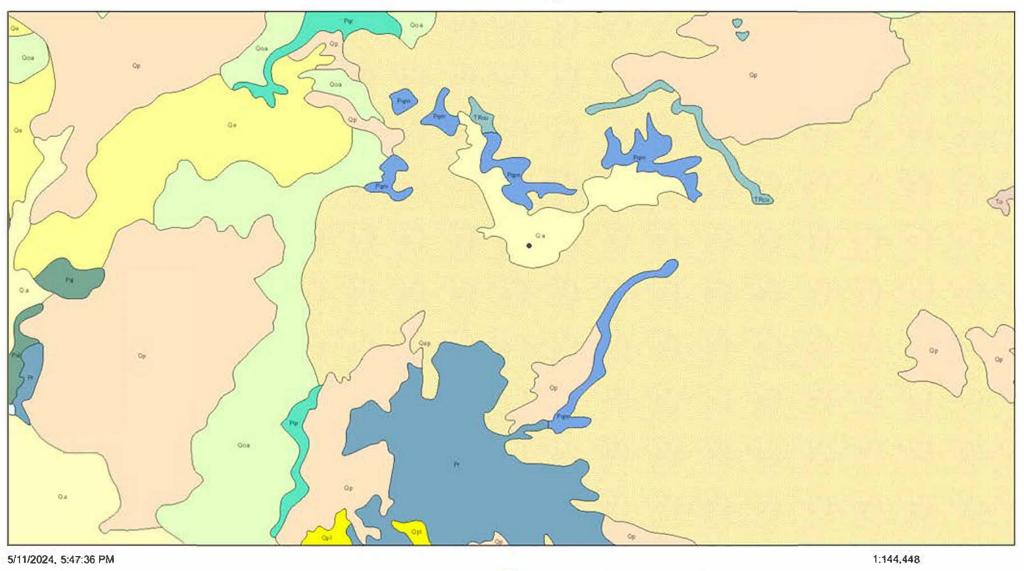
Palomas B

Wink B

Pyote A

Recreational uses

Big Eddy Unit DI 9 35 H Geology





USGS The National Map (National Boundaries Dataset, USGS Global Ecosystems, U.S. Corscus Bi-reau TIGERLine

Qp-Piedmont altural deposits (Holocure to lower Pleistrane) Qe -- Ectian deposits (Holocone to middle Pleislocene)

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/23/2024 7:52:53 AM

JOB DESCRIPTION

Big Eddy Unit DI 9 35H

JOB NUMBER

885-2895-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 2

3

4

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44

Released to Imaging: 10/16/2024 3:39:04 PM

Client: Vertex Laboratory Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

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Definitions/Glossary

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier **Qualifier Description**

D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a

dilution may be flagged with a D.

S1-Surrogate recovery exceeds control limits, low biased.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count **TNTC**

Eurofins Albuquerque

Case Narrative

Client: Vertex Job ID: 885-2895-1

Project: Big Eddy Unit DI 9 35H

Job ID: 885-2895-1 **Eurofins Albuquerque**

Job Narrative 885-2895-1

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 4/16/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

Gasoline Range Organics

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following samples: BH24-01 0' (885-2895-1), (885-2895-A-1-B MS ^2) and (885-2895-A-1-C MSD ^2). The sample(s) shows evidence of matrix interference.

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

GC VOA

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

Diesel Range Organics

Method 8015D DRO: The following samples were diluted due to the nature of the sample matrix: BH24-01 0' (885-2895-1) and BH24-02 0' (885-2895-4). Elevated reporting limits (RLs) are provided.

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

HPLC/IC

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

Eurofins Albuquerque

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-01 0' Lab Sample ID: 885-2895-1

Date Collected: 04/13/24 09:00 Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	51		9.7	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	332	S1+	15 - 244			04/17/24 12:10	04/19/24 00:03	2
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Ethylbenzene	ND		0.097	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Toluene	ND		0.097	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Xylenes, Total	0.81		0.19	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/17/24 12:10	04/19/24 00:03	2
- Method: SW846 8015D - Diese	l Range Or	ganics (DF	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4900		170	mg/Kg		04/17/24 14:47	04/18/24 16:01	20
Motor Oil Range Organics [C28-C40]	2600		870	mg/Kg		04/17/24 14:47	04/18/24 16:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

25

Unit

mg/Kg

0 S1-D

Result Qualifier

1900

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

04/17/24 14:47 04/18/24 16:01

Analyzed

04/20/24 02:48

Dil Fac

Prepared

Di-n-octyl phthalate (Surr)

Analyte

Chloride

5

7

8

10

11

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-2895-2

Date Collected: 04/13/24 09:10 Date Received: 04/16/24 07:55

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		15 - 244			04/17/24 12:10	04/18/24 15:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 15:27	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 15:27	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 15:27	1
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 15:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		9.6	mg/Kg		04/17/24 14:47	04/18/24 16:25	1
Motor Oil Range Organics [C28-C40]	150		48	mg/Kg		04/17/24 14:47	04/18/24 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/17/24 14:47	04/18/24 16:25	1

Method: EPA 300.0 - Anions, I	on Chromato	ography - 🤅	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		5.0	mg/Kg			04/20/24 03:02	1

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-01 3.5'

Date Collected: 04/13/24 09:20 Date Received: 04/16/24 07:55 Lab Sample ID: 885-2895-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		<u> 15 - 244</u>			04/17/24 12:10	04/18/24 15:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 15:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		9.4	mg/Kg		04/17/24 14:47	04/18/24 16:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:47	04/18/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			04/17/24 14:47	04/18/24 16:38	1

Method: EPA 300.0 - Anions, Io	n Chromatography	- Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90	5.0	mg/Kg			04/20/24 03:07	1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-02 0' Lab Sample ID: 885-2895-4

Date Collected: 04/13/24 09:25 East Sample 15: 003-2033-4 Matrix: Solid

Date Received: 04/16/24 07:55

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	13		9.2	mg/Kg		04/17/24 12:10	04/18/24 16:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	156		15 - 244			04/17/24 12:10	04/18/24 16:14	
Method: SW846 8021B - Vola	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.046	mg/Kg		04/17/24 12:10	04/18/24 16:14	
Ethylbenzene	ND		0.092	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Toluene	ND		0.092	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Xylenes, Total	ND		0.18	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		39 - 146			04/17/24 12:10	04/18/24 16:14	- 2
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5100		180	mg/Kg		04/17/24 14:47	04/18/24 16:13	20
Motor Oil Range Organics [C28-C40]	2000		880	mg/Kg		04/17/24 14:47	04/18/24 16:13	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)		S1- D	62 - 134			04/17/24 14:47	04/18/24 16:13	20

25

Unit

mg/Kg

Prepared

Analyzed

04/20/24 03:12

Dil Fac

Result Qualifier

2100

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<u>ی</u>

5

7

8

10

11

Project/Site: Big Eddy Unit DI 9 35H

Analyte

Chloride

Client Sample ID: BH24-02 2' Lab Sample ID: 885-2895-5

Date Collected: 04/13/24 09:30 Matrix: Solid
Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/17/24 12:10	04/18/24 16:37	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 16:37	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		04/17/24 14:47	04/18/24 16:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/17/24 14:47	04/18/24 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/17/24 14:47	04/18/24 16:50	1

RL

5.0

Unit

mg/Kg

Result Qualifier

8.4

Analyzed

04/20/24 03:16

Prepared

Dil Fac

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-02 4'

Lab Sample ID: 885-2895-6 Date Collected: 04/13/24 09:35 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 17:00	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.025	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 17:00	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/17/24 14:47	04/18/24 17:02	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:47	04/18/24 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/17/24 14:47	04/18/24 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	11		5.0	mg/Kg			04/20/24 03:31	1

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04/17/24 12:10 04/18/24 17:24

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

4-Bromofluorobenzene (Surr)

Client Sample ID: BH24-03 2' Lab Sample ID: 885-2895-7

Date Collected: 04/13/24 11:35

Date Received: 04/16/24 07:55

Matrix: Solid

Method: SW846 8015D - Gaso	oline Range	Organics ((GRO) (GC)					
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier		Unit mg/Kg	_ <u>D</u>	Prepared 04/17/24 12:10	Analyzed 04/18/24 17:24	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

15 - 244

105

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 17:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/17/24 14:47	04/18/24 17:14	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 14:47	04/18/24 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			04/17/24 14:47	04/18/24 17:14	1

Method: EPA 300.0 - Anions, Io	on Chromatogi	raphy - Soluble					
Analyte	Result Qu	ıalifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460	5.1	mg/Kg			04/20/24 03:36	1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-03 4' Lab Sample ID: 885-2895-8

Date Collected: 04/13/24 11:40 Eab Sample 1D: 003-2033-0 Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 17:47	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 17:47	1
Method: SW846 8015D - Diese	el Range Org	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/17/24 14:47	04/18/24 17:26	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:47	04/18/24 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/17/24 14:47	04/18/24 17:26	1

 Chloride
 270
 5.0
 mg/Kg
 04/20/24 03:41
 1

Unit

Result Qualifier

Analyzed

Prepared

Dil Fac

Analyte

Project/Site: Big Eddy Unit DI 9 35H

Analyte

Chloride

Client Sample ID: BH24-04 2' Lab Sample ID: 885-2895-9

Date Collected: 04/13/24 12:05 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/17/24 12:10	04/18/24 18:34	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 18:34	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/17/24 14:47	04/18/24 17:39	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:47	04/18/24 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/17/24 14:47	04/18/24 17:39	1

RL

5.0

Unit

mg/Kg

Result Qualifier

290

Analyzed

04/19/24 15:54

Prepared

Dil Fac

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-04 3' Lab Sample ID: 885-2895-10

Date Collected: 04/13/24 12:10 Matrix: Solid

Method: SW846 8015D - Gaso		Organics (GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/17/24 12:10	04/18/24 18:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 18:58	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 18:58	
Ethylbenzene	ND		0.048	mg/Kg		04/17/24 12:10	04/18/24 18:58	
Toluene	ND		0.048	mg/Kg		04/17/24 12:10	04/18/24 18:58	
Xylenes, Total	ND		0.096	mg/Kg		04/17/24 12:10	04/18/24 18:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 18:58	
Method: SW846 8015D - Diese	el Range Or	ganics (DF	(O) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	13		9.0	mg/Kg		04/17/24 14:47	04/18/24 17:51	
Diesel Range Organics [C10-C28]	ND		45	mg/Kg		04/17/24 14:47	04/18/24 17:51	
	ND							
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	DII Fa
Motor Oil Range Organics [C28-C40] Surrogate		Qualifier	Limits 62 - 134			Prepared 04/17/24 14:47	04/18/24 17:51	DII Fa
Motor Oil Range Organics [C28-C40]	%Recovery		62 - 134					DII Fa
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	%Recovery 102		62 - 134	Unit	D			Dil Fa

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Released to Imaging: 10/16/2024 3:39:04 PM

Client Sample ID: BH24-05 0'

Lab Sample ID: 885-2895-11 Date Collected: 04/13/24 12:40 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/17/24 12:10	04/18/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/17/24 12:10	04/18/24 19:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/17/24 12:10	04/18/24 19:21	1
Ethylbenzene	ND		0.046	mg/Kg		04/17/24 12:10	04/18/24 19:21	1
Toluene	ND		0.046	mg/Kg		04/17/24 12:10	04/18/24 19:21	1
Xylenes, Total	ND		0.092	mg/Kg		04/17/24 12:10	04/18/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 19:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		04/17/24 14:47	04/18/24 18:03	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		04/17/24 14:47	04/18/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105	·	62 - 134			04/17/24 14:47	04/18/24 18:03	1

Method: EPA 300.0 - Anions, Id	on Chromatogr	aphy - Soluble					
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75	5.0	mg/Kg			04/19/24 16:13	1

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Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-05 2' Lab Sample ID: 885-2895-12

Date Collected: 04/13/24 12:45 **Matrix: Solid**

Date Received: 04/16/24 07:55

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/17/24 12:10	04/18/24 19:45	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Xylenes, Total	ND		0.093	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 19:45	1
- Method: SW846 8015D - Diese	el Range Or	ganics (Di	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		04/17/24 14:47	04/18/24 18:15	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/17/24 14:47	04/18/24 18:15	1
		Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier						
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 106	Quaimer	62 - 134			04/17/24 14:47	04/18/24 18:15	1
	106	·	62 - 134			04/17/24 14:47	04/18/24 18:15	1

5.0

mg/Kg

310

04/19/24 16:18

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Released to Imaging: 10/16/2024 3:39:04 PM

Client Sample ID: BH24-05 4'

Lab Sample ID: 885-2895-13 Date Collected: 04/13/24 12:50 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 20:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Xylenes, Total	ND		0.099	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 20:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/17/24 14:47	04/18/24 18:28	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 14:47	04/18/24 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104	·	62 - 134			04/17/24 14:47	04/18/24 18:28	1

Method: EPA 300.0 - Anions, Io	n Chromat	ography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		5.0	mg/Kg			04/19/24 16:23	1

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Dil Fac

Analyzed

04/19/24 16:37

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

68

Client Sample ID: BH24-05 6' Lab Sample ID: 885-2895-14

Date Collected: 04/13/24 15:30 Matrix: Solid
Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 20:31	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Xylenes, Total	ND		0.099	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 20:31	1
Method: SW846 8015D - Diese	el Range Org	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/17/24 14:47	04/18/24 18:40	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/17/24 14:47	04/18/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			04/17/24 14:47	04/18/24 18:40	

5.0

Unit

mg/Kg

Prepared

Eurofins Albuquerque

Analyte

Chloride

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-06 0' Lab Sample ID: 885-2895-15

Date Collected: 04/13/24 12:55

Date Received: 04/16/24 07:55

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/17/24 12:10	04/18/24 20:55	1
- Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Xylenes, Total	ND		0.095	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 20:55	1
- Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015D - Diese	ei Range Or	ganics (DF	(O) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	89		8.8	mg/Kg		04/17/24 14:47	04/18/24 18:52	1
Motor Oil Range Organics [C28-C40]	220		44	mg/Kg		04/17/24 14:47	04/18/24 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			04/17/24 14:47	04/18/24 18:52	1

Method: EPA 300.0 - Anions, id	on Chromati	ograpny -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.0	mg/Kg			04/19/24 16:42	1

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Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-06 2' Lab Sample ID: 885-2895-16

Date Collected: 04/13/24 13:05

Date Received: 04/16/24 07:55

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 21:42	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 21:42	1
- Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.4	mg/Kg		04/17/24 14:47	04/18/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		04/17/24 14:47	04/18/24 19:04	1
		Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Quantities						
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 96	Qualifier	62 - 134			04/17/24 14:47	04/18/24 19:04	1
	96	·				04/17/24 14:47	04/18/24 19:04	1

5.0

7.9

mg/Kg

04/19/24 16:47

Chloride

Project/Site: Big Eddy Unit DI 9 35H

Released to Imaging: 10/16/2024 3:39:04 PM

Client Sample ID: BH24-06 4' Lab Sample ID: 885-2895-17

Date Collected: 04/13/24 13:10 **Matrix: Solid** Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			04/17/24 12:10	04/18/24 22:05	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Xylenes, Total	ND		0.095	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 22:05	1
Method: SW846 8015D - Diese	el Range Org	ganics (DI	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 14:47	04/18/24 19:16	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:47	04/18/24 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			04/17/24 14:47	04/18/24 19:16	1
Method: EPA 300.0 - Anions, I	on Chromat	tography -	- Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-07 0' Lab Sample ID: 885-2895-18

Date Collected: 04/13/24 13:20 Matrix: Solid
Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 22:29	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Xylenes, Total	ND		0.097	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 22:29	1
Method: SW846 8015D - Diese	el Range Or	ganics (DI	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		04/17/24 14:47	04/18/24 19:29	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 14:47	04/18/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			04/17/24 14:47	04/18/24 19:29	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	- Soluble					
•								

5.0

28

mg/Kg

04/19/24 16:57

Chloride

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-07 2' Lab Sample ID: 885-2895-19

Date Collected: 04/13/24 13:25 Matrix: Solid

Date Received: 04/16/24 07:55

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 23:16	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 23:16	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 14:52	04/18/24 19:41	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:52	04/18/24 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			04/17/24 14:52	04/18/24 19:41	1
Method: EPA 300.0 - Anions,	on Chromat	tography -	Soluble					

5.0

mg/Kg

5.2

04/19/24 17:02

2

3

5

9

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-07 4' Lab Sample ID: 885-2895-20

Date Collected: 04/13/24 13:30 Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/17/24 12:10	04/18/24 23:39	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 23:39	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/17/24 14:52	04/18/24 19:53	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:52	04/18/24 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/17/24 14:52	04/18/24 19:53	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					

5.0

mg/Kg

7.9

04/19/24 17:16

Chloride

Client Sample ID: Method Blank

%Rec

Prep Type: Total/NA

Prep Batch: 3449

Prep Batch: 3449

Prep Batch: 3449

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-3449/1-A

Matrix: Solid Analysis Batch: 3574

MB MB

Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared Gasoline Range Organics [C6 - C10] 5.0 04/17/24 12:10 04/18/24 14:40 ND mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 15 - 244 04/17/24 12:10 04/18/24 14:40 4-Bromofluorobenzene (Surr) 104

Lab Sample ID: LCS 885-3449/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 3574

LCS LCS Spike Analyte Added Result Qualifier Unit

LCS LCS

%Rec Limits Gasoline Range Organics [C6 -25.0 25.9 mg/Kg 103 70 - 130

C10]

%Recovery Qualifier

Limits Surrogate 4-Bromofluorobenzene (Surr) 215 15 - 244

Lab Sample ID: 885-2895-1 MS Client Sample ID: BH24-01 0' Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 3574

MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 24.2 Gasoline Range Organics [C6 -51 79.1 mg/Kg 118 70 - 130 C10]

MS MS Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 383 S1+ 15 - 244

Lab Sample ID: 885-2895-1 MSD

Matrix: Solid

Analysis Batch: 3574

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit Limits RPD Analyte %Rec 24.1 70 - 130 Gasoline Range Organics [C6 -51 71.7 mg/Kg 87 10 C10]

MSD MSD

Surrogate %Recovery Qualifier Limits 15 - 244 358 S1+ 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3449/1-A

Released to Imaging: 10/16/2024 3:39:04 PM

Matrix: Solid

Analysis Batch: 3575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3449 MB MB Result Qualifier RL Unit D Prepared Analyzed

Analyte Dil Fac 0.025 Benzene ND mg/Kg 04/17/24 12:10 04/18/24 14:40 Ethylbenzene ND 0.050 mg/Kg 04/17/24 12:10 04/18/24 14:40 Toluene ND 0.050 mg/Kg 04/17/24 12:10 04/18/24 14:40

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Client Sample ID: BH24-01 0'

Prep Type: Total/NA Prep Batch: 3449

Limit 20

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-3449/1-A **Matrix: Solid**

Analysis Batch: 3575

Analyte

Xylenes, Total

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.10 mg/Kg 04/17/24 12:10 04/18/24 14:40

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 81 39 - 146 04/17/24 12:10 04/18/24 14:40

Lab Sample ID: LCS 885-3449/3-A **Matrix: Solid**

Analysis Batch: 3575

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

Client Sample ID: Method Blank

Prep Batch: 3449

Prep Type: Total/NA

Prep Batch: 3449

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 1.00 0.843 84 70 - 130 mg/Kg mg/Kg Ethylbenzene 1.00 0.873 87 70 - 130 m,p-Xylene 2.00 1.75 mg/Kg 87 70 - 130 o-Xylene 1.00 0.857 mg/Kg 86 70 - 130 Toluene 1.00 0.845 85 70 - 130 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 39 - 146 4-Bromofluorobenzene (Surr) 86

Lab Sample ID: 885-2895-2 MS Client Sample ID: BH24-01 2'

Matrix: Solid

Analysis Batch: 3575

Prep Type: Total/NA Prep Batch: 3449

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene ND 0.937 0.833 mg/Kg 89 70 - 130 Ethylbenzene ND 0.937 0.873 mg/Kg 93 70 - 130 ND 92 70 - 130 m,p-Xylene 1.87 1.74 mg/Kg o-Xylene ND 0.937 0.866 mg/Kg 91 70 - 130 Toluene ND 0.937 0.858 mg/Kg 92 70 - 130

MS MS

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 86 39 - 146

Lab Sample ID: 885-2895-2 MSD

Matrix: Solid

Analysis Batch: 3575

Client Sample ID: BH24-01 2' Prep Type: Total/NA

Prep Batch: 3449

MSD MSD **RPD** Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 70 - 130 ND 0.938 20 Benzene 0.838 mg/Kg 89 1 Ethylbenzene ND 0.938 0.879 mg/Kg 94 70 - 130 20 m,p-Xylene ND 1.88 1.77 mg/Kg 94 70 - 130 20 o-Xylene ND 0.938 0.872 mg/Kg 91 70 - 130 20 Toluene ND 0.938 0.862 70 - 130 20 mg/Kg

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 83 39 - 146

QC Sample Results

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-3455/1-A **Matrix: Solid**

Lab Sample ID: LCS 885-3455/2-A

Analysis Batch: 3573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3455

Result Qualifier RL Unit D Analyzed Dil Fac Analyte **Prepared** 04/17/24 14:47 04/18/24 15:36 Diesel Range Organics [C10-C28] ND 10 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 04/17/24 14:47 04/18/24 15:36

MB MB

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 104 62 - 134 04/17/24 14:47 04/18/24 15:36

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3455

Spike LCS LCS %Rec Added Limits Result Qualifier Unit %Rec Analyte D 50.0 60 - 135 **Diesel Range Organics** 59.8 mg/Kg 120

[C10-C28]

Matrix: Solid

Analysis Batch: 3573

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 111 62 - 134

Lab Sample ID: 885-2895-20 MS Client Sample ID: BH24-07 4'

Matrix: Solid

Analysis Batch: 3573

Prep Type: Total/NA

Prep Batch: 3455 %Rec

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Limits Unit D %Rec Diesel Range Organics ND 49.5 45.0 91 44 - 136 mg/Kg [C10-C28]

MS MS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134 93

Lab Sample ID: 885-2895-20 MSD Client Sample ID: BH24-07 4'

Matrix: Solid

Analysis Batch: 3573

Prep Type: Total/NA Prep Batch: 3455 MSD MSD %Rec **RPD** Sample Sample Spike

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit ND Diesel Range Organics 44.8 39.3 mg/Kg 88 44 - 136

[C10-C28]

MSD MSD

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78727/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78768

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MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 5.0 mg/Kg 04/19/24 15:39

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-78727/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78768

LCS LCS Spike %Rec Added Result Qualifier %Rec Limits Analyte Unit D 250 Chloride 245 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-78727/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78768

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 245 mg/Kg 98 n

Lab Sample ID: 885-2895-9 MS Client Sample ID: BH24-04 2' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78768

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit %Rec Chloride 290 252 545 100 90 - 110 mg/Kg

Lab Sample ID: 885-2895-9 MSD Client Sample ID: BH24-04 2' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78768

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 252 290 547 mg/Kg 101 90 - 110

Lab Sample ID: 885-2895-19 MS Client Sample ID: BH24-07 2' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78768

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Result Qualifier %Rec Limits Chloride 5.2 249 249 98 90 - 110 mg/Kg

Lab Sample ID: 885-2895-19 MSD Client Sample ID: BH24-07 2'

Matrix: Solid

Analysis Batch: 78768

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Limits **RPD** Limit Analyte Qualifier Unit D %Rec 249 248 Chloride 5.2 mg/Kg 98 90 - 110

Lab Sample ID: MB 880-78728/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 78802

MB MB Result Qualifier RL Unit D Prepared **Analyte** Analyzed Chloride 5.0 04/20/24 02:33 ND mg/Kg

Lab Sample ID: LCS 880-78728/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78802

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 250 253 mg/Kg 101 90 - 110

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Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Lab Sample ID: LCSD 880-78728/3-A

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Lab Control Sample Dup Prep Type: Soluble

Matrix: Solid
Analysis Batch: 78802

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 252 mg/Kg 101 90 - 110 0 20

Lab Sample ID: 885-2895-1 MS Client Sample ID: BH24-01 0'

Matrix: Solid Prep Type: Soluble

Analysis Batch: 78802

Sample Sample Spike MS MS %Rec %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec

Chloride 1900 1260 3290 mg/Kg 108 90 - 110

Lab Sample ID: 885-2895-1 MSD Client Sample ID: BH24-01 0'

Matrix: Solid Prep Type: Soluble

Analysis Batch: 78802

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Analyte Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 1900 1260 3290 107 90 - 110 20 mg/Kg

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA

Prep Batch: 3449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-2	BH24-01 2'	Total/NA	Solid	5030C	
885-2895-3	BH24-01 3.5'	Total/NA	Solid	5030C	
885-2895-4	BH24-02 0'	Total/NA	Solid	5030C	
885-2895-5	BH24-02 2'	Total/NA	Solid	5030C	
885-2895-6	BH24-02 4'	Total/NA	Solid	5030C	
885-2895-7	BH24-03 2'	Total/NA	Solid	5030C	
885-2895-8	BH24-03 4'	Total/NA	Solid	5030C	
885-2895-9	BH24-04 2'	Total/NA	Solid	5030C	
885-2895-10	BH24-04 3'	Total/NA	Solid	5030C	
885-2895-11	BH24-05 0'	Total/NA	Solid	5030C	
885-2895-12	BH24-05 2'	Total/NA	Solid	5030C	
885-2895-13	BH24-05 4'	Total/NA	Solid	5030C	
885-2895-14	BH24-05 6'	Total/NA	Solid	5030C	
885-2895-15	BH24-06 0'	Total/NA	Solid	5030C	
885-2895-16	BH24-06 2'	Total/NA	Solid	5030C	
885-2895-17	BH24-06 4'	Total/NA	Solid	5030C	
885-2895-18	BH24-07 0'	Total/NA	Solid	5030C	
885-2895-19	BH24-07 2'	Total/NA	Solid	5030C	
885-2895-20	BH24-07 4'	Total/NA	Solid	5030C	
MB 885-3449/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3449/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3449/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-2895-1 MS	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-1 MSD	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-2 MS	BH24-01 2'	Total/NA	Solid	5030C	
885-2895-2 MSD	BH24-01 2'	Total/NA	Solid	5030C	

Analysis Batch: 3574

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8015D	3449
885-2895-2	BH24-01 2'	Total/NA	Solid	8015D	3449
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8015D	3449
885-2895-4	BH24-02 0'	Total/NA	Solid	8015D	3449
885-2895-5	BH24-02 2'	Total/NA	Solid	8015D	3449
885-2895-6	BH24-02 4'	Total/NA	Solid	8015D	3449
885-2895-7	BH24-03 2'	Total/NA	Solid	8015D	3449
885-2895-8	BH24-03 4'	Total/NA	Solid	8015D	3449
885-2895-9	BH24-04 2'	Total/NA	Solid	8015D	3449
885-2895-10	BH24-04 3'	Total/NA	Solid	8015D	3449
885-2895-11	BH24-05 0'	Total/NA	Solid	8015D	3449
885-2895-12	BH24-05 2'	Total/NA	Solid	8015D	3449
885-2895-13	BH24-05 4'	Total/NA	Solid	8015D	3449
885-2895-14	BH24-05 6'	Total/NA	Solid	8015D	3449
885-2895-15	BH24-06 0'	Total/NA	Solid	8015D	3449
885-2895-16	BH24-06 2'	Total/NA	Solid	8015D	3449
885-2895-17	BH24-06 4'	Total/NA	Solid	8015D	3449
885-2895-18	BH24-07 0'	Total/NA	Solid	8015D	3449
885-2895-19	BH24-07 2'	Total/NA	Solid	8015D	3449
885-2895-20	BH24-07 4'	Total/NA	Solid	8015D	3449
MB 885-3449/1-A	Method Blank	Total/NA	Solid	8015D	3449

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Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA (Continued)

Analysis Batch: 3574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-3449/2-A	Lab Control Sample	Total/NA	Solid	8015D	3449
885-2895-1 MS	BH24-01 0'	Total/NA	Solid	8015D	3449
885-2895-1 MSD	BH24-01 0'	Total/NA	Solid	8015D	3449

Analysis Batch: 3575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8021B	3449
885-2895-2	BH24-01 2'	Total/NA	Solid	8021B	3449
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8021B	3449
885-2895-4	BH24-02 0'	Total/NA	Solid	8021B	3449
885-2895-5	BH24-02 2'	Total/NA	Solid	8021B	3449
885-2895-6	BH24-02 4'	Total/NA	Solid	8021B	3449
885-2895-7	BH24-03 2'	Total/NA	Solid	8021B	3449
885-2895-8	BH24-03 4'	Total/NA	Solid	8021B	3449
885-2895-9	BH24-04 2'	Total/NA	Solid	8021B	3449
885-2895-10	BH24-04 3'	Total/NA	Solid	8021B	3449
885-2895-11	BH24-05 0'	Total/NA	Solid	8021B	3449
885-2895-12	BH24-05 2'	Total/NA	Solid	8021B	3449
885-2895-13	BH24-05 4'	Total/NA	Solid	8021B	3449
885-2895-14	BH24-05 6'	Total/NA	Solid	8021B	3449
885-2895-15	BH24-06 0'	Total/NA	Solid	8021B	3449
885-2895-16	BH24-06 2'	Total/NA	Solid	8021B	3449
885-2895-17	BH24-06 4'	Total/NA	Solid	8021B	3449
885-2895-18	BH24-07 0'	Total/NA	Solid	8021B	3449
885-2895-19	BH24-07 2'	Total/NA	Solid	8021B	3449
885-2895-20	BH24-07 4'	Total/NA	Solid	8021B	3449
MB 885-3449/1-A	Method Blank	Total/NA	Solid	8021B	3449
LCS 885-3449/3-A	Lab Control Sample	Total/NA	Solid	8021B	3449
885-2895-2 MS	BH24-01 2'	Total/NA	Solid	8021B	3449
885-2895-2 MSD	BH24-01 2'	Total/NA	Solid	8021B	3449

GC Semi VOA

Prep Batch: 3455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	SHAKE	
885-2895-2	BH24-01 2'	Total/NA	Solid	SHAKE	
885-2895-3	BH24-01 3.5'	Total/NA	Solid	SHAKE	
885-2895-4	BH24-02 0'	Total/NA	Solid	SHAKE	
885-2895-5	BH24-02 2'	Total/NA	Solid	SHAKE	
885-2895-6	BH24-02 4'	Total/NA	Solid	SHAKE	
885-2895-7	BH24-03 2'	Total/NA	Solid	SHAKE	
885-2895-8	BH24-03 4'	Total/NA	Solid	SHAKE	
885-2895-9	BH24-04 2'	Total/NA	Solid	SHAKE	
885-2895-10	BH24-04 3'	Total/NA	Solid	SHAKE	
885-2895-11	BH24-05 0'	Total/NA	Solid	SHAKE	
885-2895-12	BH24-05 2'	Total/NA	Solid	SHAKE	
885-2895-13	BH24-05 4'	Total/NA	Solid	SHAKE	
885-2895-14	BH24-05 6'	Total/NA	Solid	SHAKE	
885-2895-15	BH24-06 0'	Total/NA	Solid	SHAKE	
885-2895-16	BH24-06 2'	Total/NA	Solid	SHAKE	

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Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

GC Semi VOA (Continued)

Prep Batch: 3455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-17	BH24-06 4'	Total/NA	Solid	SHAKE	
885-2895-18	BH24-07 0'	Total/NA	Solid	SHAKE	
885-2895-19	BH24-07 2'	Total/NA	Solid	SHAKE	
885-2895-20	BH24-07 4'	Total/NA	Solid	SHAKE	
MB 885-3455/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3455/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2895-20 MS	BH24-07 4'	Total/NA	Solid	SHAKE	
885-2895-20 MSD	BH24-07 4'	Total/NA	Solid	SHAKE	

Analysis Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8015D	3455
885-2895-2	BH24-01 2'	Total/NA	Solid	8015D	3455
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8015D	3455
885-2895-4	BH24-02 0'	Total/NA	Solid	8015D	3455
885-2895-5	BH24-02 2'	Total/NA	Solid	8015D	3455
885-2895-6	BH24-02 4'	Total/NA	Solid	8015D	3455
885-2895-7	BH24-03 2'	Total/NA	Solid	8015D	3455
885-2895-8	BH24-03 4'	Total/NA	Solid	8015D	3455
885-2895-9	BH24-04 2'	Total/NA	Solid	8015D	3455
885-2895-10	BH24-04 3'	Total/NA	Solid	8015D	3455
885-2895-11	BH24-05 0'	Total/NA	Solid	8015D	3455
885-2895-12	BH24-05 2'	Total/NA	Solid	8015D	3455
885-2895-13	BH24-05 4'	Total/NA	Solid	8015D	3455
885-2895-14	BH24-05 6'	Total/NA	Solid	8015D	3455
885-2895-15	BH24-06 0'	Total/NA	Solid	8015D	3455
885-2895-16	BH24-06 2'	Total/NA	Solid	8015D	3455
885-2895-17	BH24-06 4'	Total/NA	Solid	8015D	3455
885-2895-18	BH24-07 0'	Total/NA	Solid	8015D	3455
885-2895-19	BH24-07 2'	Total/NA	Solid	8015D	3455
885-2895-20	BH24-07 4'	Total/NA	Solid	8015D	3455
MB 885-3455/1-A	Method Blank	Total/NA	Solid	8015D	3455
LCS 885-3455/2-A	Lab Control Sample	Total/NA	Solid	8015D	3455
885-2895-20 MS	BH24-07 4'	Total/NA	Solid	8015D	3455
885-2895-20 MSD	BH24-07 4'	Total/NA	Solid	8015D	3455

HPLC/IC

Leach Batch: 78727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-9	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-10	BH24-04 3'	Soluble	Solid	DI Leach	
885-2895-11	BH24-05 0'	Soluble	Solid	DI Leach	
885-2895-12	BH24-05 2'	Soluble	Solid	DI Leach	
885-2895-13	BH24-05 4'	Soluble	Solid	DI Leach	
885-2895-14	BH24-05 6'	Soluble	Solid	DI Leach	
885-2895-15	BH24-06 0'	Soluble	Solid	DI Leach	
885-2895-16	BH24-06 2'	Soluble	Solid	DI Leach	
885-2895-17	BH24-06 4'	Soluble	Solid	DI Leach	
885-2895-18	BH24-07 0'	Soluble	Solid	DI Leach	
885-2895-19	BH24-07 2'	Soluble	Solid	DI Leach	

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Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

HPLC/IC (Continued)

Leach Batch: 78727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-20	BH24-07 4'	Soluble	Solid	DI Leach	
MB 880-78727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2895-9 MS	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-9 MSD	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-19 MS	BH24-07 2'	Soluble	Solid	DI Leach	
885-2895-19 MSD	BH24-07 2'	Soluble	Solid	DI Leach	

Leach Batch: 78728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Soluble	Solid	DI Leach	_
885-2895-2	BH24-01 2'	Soluble	Solid	DI Leach	
885-2895-3	BH24-01 3.5'	Soluble	Solid	DI Leach	
885-2895-4	BH24-02 0'	Soluble	Solid	DI Leach	
885-2895-5	BH24-02 2'	Soluble	Solid	DI Leach	
885-2895-6	BH24-02 4'	Soluble	Solid	DI Leach	
885-2895-7	BH24-03 2'	Soluble	Solid	DI Leach	
885-2895-8	BH24-03 4'	Soluble	Solid	DI Leach	
MB 880-78728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2895-1 MS	BH24-01 0'	Soluble	Solid	DI Leach	
885-2895-1 MSD	BH24-01 0'	Soluble	Solid	DI Leach	

Analysis Batch: 78768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-9	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-10	BH24-04 3'	Soluble	Solid	300.0	78727
885-2895-11	BH24-05 0'	Soluble	Solid	300.0	78727
885-2895-12	BH24-05 2'	Soluble	Solid	300.0	78727
885-2895-13	BH24-05 4'	Soluble	Solid	300.0	78727
885-2895-14	BH24-05 6'	Soluble	Solid	300.0	78727
885-2895-15	BH24-06 0'	Soluble	Solid	300.0	78727
885-2895-16	BH24-06 2'	Soluble	Solid	300.0	78727
885-2895-17	BH24-06 4'	Soluble	Solid	300.0	78727
885-2895-18	BH24-07 0'	Soluble	Solid	300.0	78727
885-2895-19	BH24-07 2'	Soluble	Solid	300.0	78727
885-2895-20	BH24-07 4'	Soluble	Solid	300.0	78727
MB 880-78727/1-A	Method Blank	Soluble	Solid	300.0	78727
LCS 880-78727/2-A	Lab Control Sample	Soluble	Solid	300.0	78727
LCSD 880-78727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78727
885-2895-9 MS	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-9 MSD	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-19 MS	BH24-07 2'	Soluble	Solid	300.0	78727
885-2895-19 MSD	BH24-07 2'	Soluble	Solid	300.0	78727

Analysis Batch: 78802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Soluble	Solid	300.0	78728
885-2895-2	BH24-01 2'	Soluble	Solid	300.0	78728

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Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

HPLC/IC (Continued)

Analysis Batch: 78802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-3	BH24-01 3.5'	Soluble	Solid	300.0	78728
885-2895-4	BH24-02 0'	Soluble	Solid	300.0	78728
885-2895-5	BH24-02 2'	Soluble	Solid	300.0	78728
885-2895-6	BH24-02 4'	Soluble	Solid	300.0	78728
885-2895-7	BH24-03 2'	Soluble	Solid	300.0	78728
885-2895-8	BH24-03 4'	Soluble	Solid	300.0	78728
MB 880-78728/1-A	Method Blank	Soluble	Solid	300.0	78728
LCS 880-78728/2-A	Lab Control Sample	Soluble	Solid	300.0	78728
LCSD 880-78728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78728
885-2895-1 MS	BH24-01 0'	Soluble	Solid	300.0	78728
885-2895-1 MSD	BH24-01 0'	Soluble	Solid	300.0	78728

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Client Sample ID: BH24-01 0'

Date Collected: 04/13/24 09:00

Lab Sample ID: 885-2895-1

Matrix: Solid

Date Received: 04/16/24 07:55

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		2	3574	JP	EET ALB	04/19/24 00:03
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		2	3575	JP	EET ALB	04/19/24 00:03
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		20	3573	JU	EET ALB	04/18/24 16:01
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		5	78802	SMC	EET MID	04/20/24 02:48

Client Sample ID: BH24-01 2'

Date Collected: 04/13/24 09:10

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-2

Matrix: Solid

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab 04/17/24 12:10 Total/NA Prep 5030C 3449 **EET ALB** Total/NA 04/18/24 15:27 Analysis 8015D 3574 JP **EET ALB** 1 Total/NA 5030C 3449 JP **EET ALB** 04/17/24 12:10 Prep Total/NA 8021B **EET ALB** 04/18/24 15:27 Analysis 1 3575 JP Total/NA Prep SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Total/NA 8015D 3573 JU **EET ALB** 04/18/24 16:25 Analysis 1 Soluble Leach DI Leach 78728 SMC **EET MID** 04/19/24 10:40 78802 SMC **EET MID** 04/20/24 03:02 Soluble Analysis 300.0 1

Client Sample ID: BH24-01 3.5'

Date Collected: 04/13/24 09:20

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 15:50
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 15:50
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 16:38
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:07

Client Sample ID: BH24-02 0'

Date Collected: 04/13/24 09:25

Date Received: 04/16/24 07:55

Lab	Sampl	e ID:	885-28	895-4	
			Barbara and Company		

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		2	3574	JP	EET ALB	04/18/24 16:14

Client: Vertex

Client Sample ID: BH24-02 0'

Released to Imaging: 10/16/2024 3:39:04 PM

Date Received: 04/16/24 07:55

Date Collected: 04/13/24 09:25

Lab Sample ID: 885-2895-4 **Matrix: Solid**

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab Total/NA 5030C 3449 EET ALB 04/17/24 12:10 Prep Total/NA 8021B 2 3575 JP 04/18/24 16:14 Analysis **EET ALB** Total/NA Prep SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Total/NA 8015D 20 3573 JU **EET ALB** 04/18/24 16:13 Analysis Soluble **EET MID** 04/19/24 10:40 Leach DI Leach 78728 SMC 78802 SMC Soluble Analysis 300.0 5 **EET MID** 04/20/24 03:12

Client Sample ID: BH24-02 2' Lab Sample ID: 885-2895-5

Date Collected: 04/13/24 09:30 Matrix: Solid Date Received: 04/16/24 07:55

Batch Batch Dilution **Prepared** Batch Method **Prep Type** Type Run **Factor** Number Analyst Lab or Analyzed Total/NA Prep 5030C 3449 JP **EET ALB** 04/17/24 12:10 Total/NA 8015D 04/18/24 16:37 Analysis 3574 JP **EET ALB** 1 Total/NA Prep 5030C 3449 JΡ **EET ALB** 04/17/24 12:10 Total/NA 8021B 3575 JP Analysis 1 **EET ALB** 04/18/24 16:37 Total/NA SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Prep 3573 JU Total/NA 8015D **EET ALB** Analysis 1 04/18/24 16:50 Soluble Leach DI Leach 78728 SMC **EET MID** 04/19/24 10:40 04/20/24 03:16 Soluble 300.0 78802 SMC **EET MID** Analysis 1

Client Sample ID: BH24-02 4' Lab Sample ID: 885-2895-6

Date Collected: 04/13/24 09:35 Matrix: Solid Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 17:00
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 17:00
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:02
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:31

Client Sample ID: BH24-03 2' Lab Sample ID: 885-2895-7

Date Collected: 04/13/24 11:35 Matrix: Solid Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 17:24
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 17:24

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-03 2'

Date Collected: 04/13/24 11:35 Date Received: 04/16/24 07:55 Lab Sample ID: 885-2895-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Batch Dilution Batch Batch Prepared **Prep Type** Method Number Analyst or Analyzed Type Run **Factor** Lab Total/NA SHAKE 3455 DH EET ALB 04/17/24 14:47 Prep Total/NA 8015D 3573 JU 04/18/24 17:14 Analysis 1 **EET ALB** Soluble Leach DI Leach 78728 SMC **EET MID** 04/19/24 10:40 300.0 78802 SMC Soluble Analysis **EET MID** 04/20/24 03:36 1

Client Sample ID: BH24-03 4' Lab Sample ID: 885-2895-8

Date Collected: 04/13/24 11:40 Date Received: 04/16/24 07:55

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab 04/17/24 12:10 Total/NA Prep 5030C 3449 JΡ **EET ALB** Total/NA 8015D 04/18/24 17:47 Analysis 3574 JP 1 **EET ALB** Total/NA Prep 5030C 3449 **EET ALB** 04/17/24 12:10 Total/NA 8021B 3575 JP **EET ALB** 04/18/24 17:47 Analysis 1 Total/NA SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Prep Total/NA 8015D **EET ALB** Analysis 1 3573 JU 04/18/24 17:26 Soluble DI Leach 78728 SMC **EET MID** 04/19/24 10:40 Leach Soluble Analysis 300.0 78802 SMC **EET MID** 04/20/24 03:41 1

Client Sample ID: BH24-04 2' Lab Sample ID: 885-2895-9

Date Collected: 04/13/24 12:05 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 18:34
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 18:34
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:39
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 15:54

Client Sample ID: BH24-04 3'

Date Collected: 04/13/24 12:10

Lab Sample ID: 885-2895-10

Matrix: Solid

Date Received: 04/16/24 07:55

Released to Imaging: 10/16/2024 3:39:04 PM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 18:58
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 18:58
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:51

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Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

Client Sample ID: BH24-04 3'

Date Collected: 04/13/24 12:10

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-10

Matrix: Solid

Batch Dilution Batch **Prepared Prep Type** Туре Method **Factor** Number Analyst or Analyzed Run Lab 04/19/24 10:36 Soluble Leach DI Leach 78727 SMC EET MID 04/19/24 16:08 Soluble Analysis 300.0 78768 SMC **EET MID** 1

Client Sample ID: BH24-05 0' Lab Sample ID: 885-2895-11

Date Collected: 04/13/24 12:40 **Matrix: Solid**

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 19:21
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 19:21
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:03
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:13

Client Sample ID: BH24-05 2' Lab Sample ID: 885-2895-12 Date Collected: 04/13/24 12:45

Date Received: 04/16/24 07:55

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 19:45
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 19:45
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:15
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:18

Lab Sample ID: 885-2895-13 Client Sample ID: BH24-05 4' Date Collected: 04/13/24 12:50

Date Received: 04/16/24 07:55

Γ	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 20:08
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 20:08
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:28
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:23

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Matrix: Solid

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-05 6'

Date Collected: 04/13/24 15:30 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-14

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 20:31
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 20:31
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:40
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:37

Client Sample ID: BH24-06 0'

Date Collected: 04/13/24 12:55 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-15

Matrix: Solid

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab 04/17/24 12:10 Total/NA Prep 5030C 3449 **EET ALB** Total/NA 04/18/24 20:55 Analysis 8015D 3574 JP **EET ALB** 1 Total/NA Prep 5030C 3449 JP **EET ALB** 04/17/24 12:10 Total/NA 8021B **EET ALB** 04/18/24 20:55 Analysis 1 3575 JP Total/NA Prep SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Total/NA 8015D 3573 JU **EET ALB** 04/18/24 18:52 Analysis 1 Soluble Leach DI Leach 78727 SMC **EET MID** 04/19/24 10:36 78768 SMC EET MID 04/19/24 16:42 Soluble Analysis 300.0 1

Client Sample ID: BH24-06 2'

Date Collected: 04/13/24 13:05 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-16

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 21:42
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 21:42
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:04
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:47

Client Sample ID: BH24-06 4'

Date Collected: 04/13/24 13:10

Date Received: 04/16/24 07:55

Lab Sam	ple ID:	: 885-2895-1	7
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 22:05

Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

Soluble

Client Sample ID: BH24-06 4'

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2895-17 Date Collected: 04/13/24 13:10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 22:05
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:16
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:52

Client Sample ID: BH24-07 0' Lab Sample ID: 885-2895-18 **Matrix: Solid**

Date Collected: 04/13/24 13:20 Date Received: 04/16/24 07:55

300.0

Analysis

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number Analyst Lab or Analyzed 04/17/24 12:10 Total/NA Prep 5030C 3449 JΡ **EET ALB** Total/NA 8015D 3574 JP 04/18/24 22:29 Analysis **EET ALB** 1 Total/NA Prep 5030C 3449 **EET ALB** 04/17/24 12:10 04/18/24 22:29 Total/NA 8021B 3575 JP **EET ALB** Analysis 1 Total/NA SHAKE 3455 DH **EET ALB** 04/17/24 14:47 Prep 8015D Total/NA 3573 JU **EET ALB** 04/18/24 19:29 Analysis 1 Soluble Leach DI Leach 78727 SMC EET MID 04/19/24 10:36

Client Sample ID: BH24-07 2' Lab Sample ID: 885-2895-19

1

78768 SMC

EET MID

04/19/24 16:57

Date Collected: 04/13/24 13:25 **Matrix: Solid** Date Received: 04/16/24 07:55

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 23:16
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 23:16
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:52
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:41
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 17:02

Lab Sample ID: 885-2895-20 Client Sample ID: BH24-07 4'

Date Collected: 04/13/24 13:30 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 23:39
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 23:39

Lab Chronicle

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-07 4' Lab Sample ID: 885-2895-20

Date Collected: 04/13/24 13:30 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:52
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:53
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 17:16

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date			
New Mexico	State		NM9425, NM0901	02-26-25			
0 ,	s are included in this repo does not offer certification	•	not certified by the governing author	ity. This list may include analytes			
Analysis Method	Prep Method	Matrix	Analyte				
8015D	5030C	Solid	Gasoline Range Organic	s [C6 - C10]			
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]				
8015D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]			
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene				
8021B 5030C Sol		Solid	Xylenes, Total				
Oregon	NELA	P	NM100001	02-26-25			

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Eurofins Albuquerque

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HALL ENVIRONMENTAL ANALYSIS LABORATORY www nailenvironmental com 4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107 Analysis Request	8081 Pesticides/8082 PCB's EDB (Method 504 1) RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)						×	×	×	×	×	×	×	×			:	Direct Bill to ATO Energy, IIIC. NAPP2335435491	CC.Sally Carttar (scarttar@vertex.ca) for Final Report.	accredited laboratories This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.		
4901	Tel	(0)	ЯM	/ OX	40 /	OS	19)	12D	N3T8	×	×	×	×	×	×	×	×			Remarks:	Mect bii	ost Cen C.Sally	ossibility An
Turn-Around Time ☐ Standard ☐ Rush 5-day Project Name Big Eddy Unit DI 9 35H	710Ject # 24E-01314	Project Manager	Sally Carttar	SCarttar@vertex ca		On Ice: 17-Yes No	#of Coolers: 1 4 @ 4 8	Cooler Temp(including cF): ハムーロップ・アー	Container Preservative HEAL No. Type and # Type	1, 4oz jar	1, 40z jar	1, 4oz jar			Via Date Time	my 4/5/14 020	Received by Via Date Time (COV) A/ UNIVOY 715 T	ocontracted to other accredited laboratories. This serves as notice of this					
Chain-of-Custody Record Vertex (Bill to XTO Energy, Inc) g Address On file				☐ Level 4 (Full Validation)	☐ Az Compliance	her			ix Sample Name	ıl BH24-05 4'	ıl BH24-05 6'	ıl BH24-06 0'	ıl BH24-06 2'	II BH24-06 4'	ıl BH24-07 0'	ıl BH24-07 2'	ıl BH24-07 4'			Relinquished by	NYWAN	Relinquished by (MCCCCCTA	if necessary samples submitted to Hall Environmental may be subcontracted to other
tex (Bill to		#X	age	-		□ Other	pe)		ne Matrix	50 Soil	30 Soil	Soll Soll	13 05 Soll	13 10 Soil	20 Soll	25 Soil	30 Sorl		_			Reli	ssary samples
Client Vertex (Mailing Address	Phone #	email or Fax#	QA/QC Package	□ Standard	Accreditation	□ NELAC	☐ EDD (Type)		Date Time	04 13 24 12	04 13 24 15	Q 04 13 24 12	04 13 24	04 13 24 13	04 13 24 13	04 13 24 13	04 13 24 13			Date Time		Date Time 52/4/15/24 1900	

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2895-1

List Source: Eurofins Albuquerque Login Number: 2895

List Number: 1 Creator: Rojas, Juan

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2895-1

Login Number: 2895 **List Source: Eurofins Midland** List Number: 2 List Creation: 04/19/24 11:00 AM

Creator: Vasquez, Julisa

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/22/2024 11:51:01 AM

JOB DESCRIPTION

Big Eddy Unit DI 9 35H

JOB NUMBER

885-2902-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 4/22/2024 11:51:01 AM

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

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Released to Imaging: 10/16/2024 3:39:04 PM

Laboratory Job ID: 885-2902-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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Definitions/Glossary

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Qualifiers

GC Semi VOA Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, low biased. S1-S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

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" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Vertex Job ID: 885-2902-1

Project: Big Eddy Unit DI 9 35H

Job ID: 885-2902-1 Eurofins Albuquerque

Job Narrative 885-2902-1

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 4/16/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample was outside the upper control limit: BH24-15 2' (885-2902-16). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Albuquerque

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Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-08 0' Lab Sample ID: 885-2902-1

Date Collected: 04/14/24 09:45 East Sample 15: 003-2302-1

Date Collected: 04/14/24 09:45 Matri

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 02:16	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Xylenes, Total	ND		0.098	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/16/24 17:07	04/18/24 02:16	
Method: SW846 8015D - Diese	el Range Or	ganics (DF	(GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/18/24 22:19	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 09:56	04/18/24 22:19	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
	81		62 - 134			04/17/24 09:56	04/18/24 22:19	
	01							
Di-n-octyl phthalate (Surr)	-	tography -	Soluble					
Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	on Chroma	tography - Qualifier	Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

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Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-2902-2

Date Collected: 04/14/24 09:55 Matrix: Solid Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 02:38	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Xylenes, Total	ND		0.094	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 02:38	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/17/24 09:56	04/18/24 22:31	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/17/24 09:56	04/18/24 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			04/17/24 09:56	04/18/24 22:31	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 10/16/2024 3:39:04 PM

Job ID: 885-2902-1 Client: Vertex

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-09 0' Lab Sample ID: 885-2902-3

Date Collected: 04/14/24 10:00 **Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/16/24 17:07	04/18/24 03:00	1
- Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Toluene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 03:00	1
- Method: SW846 8015D - Dies	el Range Or	ganics (DI	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/17/24 09:56	04/18/24 22:43	1
	ND		48	mg/Kg		04/17/24 09:56	04/18/24 22:43	1
Motor Oil Range Organics [C28-C40]						Dramarad	Anglyzad	Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	DII Fac
0 0 1	%Recovery	Qualifier				Prepared	Allalyzeu	
	86	<u>·</u>	62 - 134			04/17/24 09:56	04/18/24 22:43	DIFF

5.0

mg/Kg

280

04/19/24 10:03

Chloride

Job ID: 885-2902-1 Client: Vertex

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-09 2' Lab Sample ID: 885-2902-4

Date Collected: 04/14/24 10:10 **Matrix: Solid**

Date Received: 04/16/24 07:55

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 03:21	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Xylenes, Total	ND		0.094	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 03:21	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		04/17/24 09:56	04/18/24 22:55	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/17/24 09:56	04/18/24 22:55	1
0 0 1						_		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery	Qualifier	Limits 62 - 134			Prepared 04/17/24 09:56	Analyzed 04/18/24 22:55	Dil Fac
	118		62 - 134					Dil Fac

5.0

210

mg/Kg

04/19/24 10:08

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-10 2'

Lab Sample ID: 885-2902-5 Date Collected: 04/14/24 10:25

Matrix: Solid

Analyzed

04/19/24 10:13

Prepared

Dil Fac

Date Received: 04/16/24 07:55

Analyte

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/16/24 17:07	04/18/24 03:43	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Xylenes, Total	ND		0.099	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 03:43	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		04/17/24 09:56	04/18/24 23:07	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		04/17/24 09:56	04/18/24 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			04/17/24 09:56	04/18/24 23:07	1

RL

5.0

Result Qualifier

650

Unit

mg/Kg

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-10 4'

Lab Sample ID: 885-2902-6 Date Collected: 04/14/24 13:30

Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 04:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 04:05	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 04:05	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 04:05	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 04:05	1
Xylenes, Total	ND		0.095	mg/Kg		04/16/24 17:07	04/18/24 04:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 04:05	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/17/24 09:56	04/18/24 23:20	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 09:56	04/18/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			04/17/24 09:56	04/18/24 23:20	1
	lon Chroma	tography -	Soluble					
Method: EPA 300.0 - Anions, I	on Cinoma	tog.upiij	•••••					
Method: EPA 300.0 - Anions, Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-11 0'

Lab Sample ID: 885-2902-7 Date Collected: 04/14/24 10:30

Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 04:49	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Ethylbenzene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Toluene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Xylenes, Total	ND		0.092	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		39 - 146			04/16/24 17:07	04/18/24 04:49	1
Method: SW846 8015D - Diese	el Range Or	ganics (DR	(GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
D: I D						04/47/04 00 50	0.4/4.0/0.4.00.00	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/18/24 23:32	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 09:56	04/18/24 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/17/24 09:56	04/18/24 23:32	1

Method: EPA 300.0 - Anions, Id	on Chromatogr	raphy - Soluble					
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230	5.0	mg/Kg			04/19/24 10:32	1

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-11 2' Lab Sample ID: 885-2902-8

Date Collected: 04/14/24 10:40 East Sample 15: 003-2302-0

Matrix: Solid

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/16/24 17:07	04/18/24 05:10	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Ethylbenzene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Toluene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Xylenes, Total	ND		0.093	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 05:10	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/17/24 09:56	04/18/24 23:44	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 09:56	04/18/24 23:44	1
						Dramarad	A a l a al	D# 5-
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 87	Qualifier	62 - 134			04/17/24 09:56	04/18/24 23:44	DII Fac
	87		62 - 134					DII Fac

5.0

170

mg/Kg

04/19/24 10:46

Chloride

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-12 2'

620

Lab Sample ID: 885-2902-9 **Matrix: Solid**

Date Collected: 04/14/24 10:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 244			04/16/24 17:07	04/18/24 05:32	1
- Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 05:32	1
- Method: SW846 8015D - Diese	el Range Or	ganics (DI	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	ND.		8.6	mg/Kg		04/17/24 09:56	04/18/24 23:56	1
Diesel Range Organics [C10-C28]	110					04/17/24 09:56	04/18/24 23:56	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/11/24 09.50	04/10/24 20:00	
		Qualifier	43 Limits	mg/Kg		Prepared	Analyzed	Dil Fac
0 0 1 1	ND	Qualifier		mg/Kg				Dil Fa
Motor Oil Range Organics [C28-C40] Surrogate	ND **Recovery 87	·	Limits 62 - 134	mg/Kg		Prepared	Analyzed	Dil Fac

5.0

mg/Kg

04/19/24 10:51

Chloride

Client Sample Results

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-12 4'

Lab Sample ID: 885-2902-10

Date Collected: 04/14/24 13:35 Date Received: 04/16/24 07:55

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 05:54	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Toluene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 05:54	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		03	ma/Ka		04/17/24 00:56	04/19/24 00:08	

Method: SW846 8015D - Diese	I Range Org	ganics (DF	(C) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/17/24 09:56	04/19/24 00:08	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 09:56	04/19/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			04/17/24 09:56	04/19/24 00:08	1

Method: EPA 300.0 - Anions, lo	n Chromatograph	hy - Soluble					
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460	5.0	mg/Kg			04/19/24 10:56	1

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-13 2' Lab Sample ID: 885-2902-11

Date Collected: 04/14/24 11:10 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/16/24 17:07	04/18/24 06:16	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Xylenes, Total	ND		0.097	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:16	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/17/24 09:56	04/19/24 00:20	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/17/24 09:56	04/19/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			04/17/24 09:56	04/19/24 00:20	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		25	mg/Kg		·	04/19/24 11:01	5

Client Sample Results

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-13 4'

Lab Sample ID: 885-2902-12

Date Collected: 04/14/24 13:40 Date Received: 04/16/24 07:55

470

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 06:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		15 - 244			04/16/24 17:07	04/18/24 06:38	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 06:38	
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:38	
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:38	
Xylenes, Total	ND		0.099	mg/Kg		04/16/24 17:07	04/18/24 06:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:38	
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		04/17/24 09:56	04/19/24 00:32	
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/17/24 09:56	04/19/24 00:32	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	108		62 - 134			04/17/24 09:56	04/19/24 00:32	-

5.0

mg/Kg

04/19/24 11:06

Chloride

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-14 0' Lab Sample ID: 885-2902-13

Date Collected: 04/14/24 11:15

Matrix: Solid

Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg	_ =	04/16/24 17:07	04/18/24 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/16/24 17:07	04/18/24 06:59	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Xylenes, Total	ND		0.093	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:59	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 09:56	04/19/24 00:45	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 09:56	04/19/24 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			04/17/24 09:56	04/19/24 00:45	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
		O !!£!	DI.	Unit	D	Dropored	Analyzad	Dil Fac
Analyte	Result	Qualifier	RL	Unit		Prepared	Analyzed	DII Fac

Client Sample Results

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-14 2'

Lab Sample ID: 885-2902-14 Date Collected: 04/14/24 11:25

Matrix: Solid Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 07:21	1
Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 07:21	1
			o) (GC)					
Method: SW846 8015D - Diese	I Range Or	ganics (שא	(00)					
Method: SW846 8015D - Diese Analyte		ganics (DR Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		•	, , ,	Unit mg/Kg	_ D	$\frac{\textbf{Prepared}}{04/17/24\ 09:56}$	Analyzed 04/19/24 00:57	Dil Fac
Analyte	Result	•	RL		<u>D</u>	04/17/24 09:56		Dil Fac 1
Analyte Diesel Range Organics [C10-C28]	Result ND	Qualifier	9.6	mg/Kg	<u>D</u>	04/17/24 09:56	04/19/24 00:57	Dil Fac 1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result ND ND	Qualifier	9.6 48	mg/Kg	<u>D</u>	04/17/24 09:56 04/17/24 09:56 Prepared	04/19/24 00:57 04/19/24 00:57	

5.0

mg/Kg

260

04/19/24 11:15

Chloride

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Client Sample ID: BH24-15 0' Lab Sample ID: 885-2902-15

Date Collected: 04/14/24 11:30 **Matrix: Solid** Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	Organics	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 07:43	1
Method: SW846 8021B - Volati	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Xylenes, Total	ND		0.097	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 07:43	1
Method: SW846 8015D - Diese	el Range Or	ganics (DI	RO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/17/24 09:56	04/19/24 01:09	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 09:56	04/19/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			04/17/24 09:56	04/19/24 01:09	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	- Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.1

120

mg/Kg

04/19/24 23:15

Client Sample Results

Client: Vertex

Client Sample ID: BH24-15 2' Lab Sample ID: 885-2902-16

Date Collected: 04/14/24 11:40 **Matrix: Solid**

Date Received: 04/16/24 07:55

Chloride

Released to Imaging: 10/16/2024 3:39:04 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/16/24 17:07	04/18/24 08:05	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/16/24 17:07	04/18/24 08:05	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/19/24 01:21	1
M (011 D	ND		46	mg/Kg		04/17/24 09:56	04/19/24 01:21	1
Motor Oil Range Organics [C28-C40]								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)		Qualifier S1+	Limits 62 - 134			Prepared 04/17/24 09:56	Analyzed 04/19/24 01:21	Dil Fac
Surrogate	%Recovery 139	S1+	62 - 134					Dil Fac

5.0

mg/Kg

200

04/19/24 23:19

Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

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

Lab Sample ID: MB 885-3420/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA Analysis Batch: 3503** Prep Batch: 3420 MB MB

Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared 04/16/24 17:07 04/17/24 23:00 Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 04/16/24 17:07 04/17/24 23:00 4-Bromofluorobenzene (Surr) 96 15 - 244

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 885-3420/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3503 Prep Batch: 3420

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics [C6 -25.0 25.9 mg/Kg 104 70 - 130

C10] LCS LCS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 222 15 - 244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3420/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 3505 Prep Batch: 3420 MB MB

Analyte Result Qualifier Unit Prepared RL Analyzed Dil Fac Benzene ND 0.025 04/16/24 17:07 04/17/24 23:00 mg/Kg Ethylbenzene ND 0.050 mg/Kg 04/16/24 17:07 04/17/24 23:00 Toluene ND 0.050 mg/Kg 04/16/24 17:07 04/17/24 23:00 04/16/24 17:07 04/17/24 23:00 Xylenes, Total ND 0.10 mg/Kg

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 86 39 - 146 04/16/24 17:07 04/17/24 23:00 4-Bromofluorobenzene (Surr)

Lab Sample ID: LCS 885-3420/3-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Prep Batch: 3420 **Analysis Batch: 3505**

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 1.00 0.969 mg/Kg 97 70 - 130 Ethylbenzene 1.00 0.972 mg/Kg 97 70 - 130

m,p-Xylene 2.00 1.95 mg/Kg 97 70 - 130 o-Xylene 1.00 0.972 mg/Kg 97 70 - 130 Toluene 1.00 0.970 97 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 39 - 146 88

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-3421/1-A **Matrix: Solid**

Analysis Batch: 3573

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

Prep Batch: 3421

MB MB Result Qualifier RL Unit D Analyzed Dil Fac Analyte **Prepared** mg/Kg Diesel Range Organics [C10-C28] ND 10 04/17/24 09:56 04/18/24 20:42 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 04/17/24 09:56 04/18/24 20:42

MB MB

Surrogate %Recovery Qualifier I imite Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 109 62 - 134 04/17/24 09:56 04/18/24 20:42

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 885-3421/2-A **Matrix: Solid**

Analysis Batch: 3573

Prep Type: Total/NA

Prep Batch: 3421

Spike LCS LCS %Rec Added Result Qualifier Limits Unit %Rec Analyte D 50.0 60 - 135 **Diesel Range Organics** 51.8 mg/Kg 104

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 103 62 - 134

Lab Sample ID: 885-2902-16 MS Client Sample ID: BH24-15 2'

Matrix: Solid

Analysis Batch: 3573

Prep Type: Total/NA Prep Batch: 3421

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit D %Rec

Diesel Range Organics ND 43.2 42.6 98 44 - 136 mg/Kg

[C10-C28]

MS MS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134 91

Lab Sample ID: 885-2902-16 MSD Client Sample ID: BH24-15 2'

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 3573 Prep Batch: 3421

MSD MSD %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** ND Diesel Range Organics 44.4 30.9 mg/Kg 70 44 - 136

[C10-C28]

MSD MSD

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 57 S1-62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78599/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78704

Released to Imaging: 10/16/2024 3:39:04 PM

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 5.0 mg/Kg 04/19/24 08:50

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RPD

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-78599/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78704 LCS LCS Spike Added Result Qualifier Unit D

%Rec Limits Analyte %Rec 250 Chloride 248 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-78599/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78704

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 248 mg/Kg 99 n

Lab Sample ID: 885-2902-5 MS Client Sample ID: BH24-10 2' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78704

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit %Rec Chloride 650 251 902 99 90 - 110 mg/Kg

Lab Sample ID: 885-2902-5 MSD Client Sample ID: BH24-10 2' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78704

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 251 894 650 mg/Kg 90 - 110

Lab Sample ID: MB 880-78732/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78778

MB MB Analyte RL Unit Result Qualifier Prepared Analyzed Dil Fac Chloride ND 5.0 04/19/24 21:18 mg/Kg

Lab Sample ID: LCS 880-78732/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78778

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

Lab Sample ID: LCSD 880-78732/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78778

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit Limits RPD Limit %Rec 250 Chloride 249 mg/Kg 100 90 - 110 0

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA

Prep Batch: 3420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	5030C	
885-2902-2	BH24-08 2'	Total/NA	Solid	5030C	
885-2902-3	BH24-09 0'	Total/NA	Solid	5030C	
885-2902-4	BH24-09 2'	Total/NA	Solid	5030C	
885-2902-5	BH24-10 2'	Total/NA	Solid	5030C	
885-2902-6	BH24-10 4'	Total/NA	Solid	5030C	
885-2902-7	BH24-11 0'	Total/NA	Solid	5030C	
885-2902-8	BH24-11 2'	Total/NA	Solid	5030C	
885-2902-9	BH24-12 2'	Total/NA	Solid	5030C	
885-2902-10	BH24-12 4'	Total/NA	Solid	5030C	
885-2902-11	BH24-13 2'	Total/NA	Solid	5030C	
885-2902-12	BH24-13 4'	Total/NA	Solid	5030C	
885-2902-13	BH24-14 0'	Total/NA	Solid	5030C	
885-2902-14	BH24-14 2'	Total/NA	Solid	5030C	
885-2902-15	BH24-15 0'	Total/NA	Solid	5030C	
885-2902-16	BH24-15 2'	Total/NA	Solid	5030C	
MB 885-3420/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3420/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3420/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 3503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8015D	3420
885-2902-2	BH24-08 2'	Total/NA	Solid	8015D	3420
885-2902-3	BH24-09 0'	Total/NA	Solid	8015D	3420
885-2902-4	BH24-09 2'	Total/NA	Solid	8015D	3420
885-2902-5	BH24-10 2'	Total/NA	Solid	8015D	3420
885-2902-6	BH24-10 4'	Total/NA	Solid	8015D	3420
885-2902-7	BH24-11 0'	Total/NA	Solid	8015D	3420
885-2902-8	BH24-11 2'	Total/NA	Solid	8015D	3420
885-2902-9	BH24-12 2'	Total/NA	Solid	8015D	3420
885-2902-10	BH24-12 4'	Total/NA	Solid	8015D	3420
885-2902-11	BH24-13 2'	Total/NA	Solid	8015D	3420
885-2902-12	BH24-13 4'	Total/NA	Solid	8015D	3420
885-2902-13	BH24-14 0'	Total/NA	Solid	8015D	3420
885-2902-14	BH24-14 2'	Total/NA	Solid	8015D	3420
885-2902-15	BH24-15 0'	Total/NA	Solid	8015D	3420
885-2902-16	BH24-15 2'	Total/NA	Solid	8015D	3420
MB 885-3420/1-A	Method Blank	Total/NA	Solid	8015D	3420
LCS 885-3420/2-A	Lab Control Sample	Total/NA	Solid	8015D	3420

Analysis Batch: 3505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8021B	3420
885-2902-2	BH24-08 2'	Total/NA	Solid	8021B	3420
885-2902-3	BH24-09 0'	Total/NA	Solid	8021B	3420
885-2902-4	BH24-09 2'	Total/NA	Solid	8021B	3420
885-2902-5	BH24-10 2'	Total/NA	Solid	8021B	3420
885-2902-6	BH24-10 4'	Total/NA	Solid	8021B	3420
885-2902-7	BH24-11 0'	Total/NA	Solid	8021B	3420
885-2902-8	BH24-11 2'	Total/NA	Solid	8021B	3420

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Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA (Continued)

Analysis Batch: 3505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-9	BH24-12 2'	Total/NA	Solid	8021B	3420
885-2902-10	BH24-12 4'	Total/NA	Solid	8021B	3420
885-2902-11	BH24-13 2'	Total/NA	Solid	8021B	3420
885-2902-12	BH24-13 4'	Total/NA	Solid	8021B	3420
885-2902-13	BH24-14 0'	Total/NA	Solid	8021B	3420
885-2902-14	BH24-14 2'	Total/NA	Solid	8021B	3420
885-2902-15	BH24-15 0'	Total/NA	Solid	8021B	3420
885-2902-16	BH24-15 2'	Total/NA	Solid	8021B	3420
MB 885-3420/1-A	Method Blank	Total/NA	Solid	8021B	3420
LCS 885-3420/3-A	Lab Control Sample	Total/NA	Solid	8021B	3420

GC Semi VOA

Prep Batch: 3421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	SHAKE	
885-2902-2	BH24-08 2'	Total/NA	Solid	SHAKE	
885-2902-3	BH24-09 0'	Total/NA	Solid	SHAKE	
885-2902-4	BH24-09 2'	Total/NA	Solid	SHAKE	
885-2902-5	BH24-10 2'	Total/NA	Solid	SHAKE	
885-2902-6	BH24-10 4'	Total/NA	Solid	SHAKE	
885-2902-7	BH24-11 0'	Total/NA	Solid	SHAKE	
885-2902-8	BH24-11 2'	Total/NA	Solid	SHAKE	
885-2902-9	BH24-12 2'	Total/NA	Solid	SHAKE	
885-2902-10	BH24-12 4'	Total/NA	Solid	SHAKE	
885-2902-11	BH24-13 2'	Total/NA	Solid	SHAKE	
885-2902-12	BH24-13 4'	Total/NA	Solid	SHAKE	
885-2902-13	BH24-14 0'	Total/NA	Solid	SHAKE	
885-2902-14	BH24-14 2'	Total/NA	Solid	SHAKE	
885-2902-15	BH24-15 0'	Total/NA	Solid	SHAKE	
885-2902-16	BH24-15 2'	Total/NA	Solid	SHAKE	
MB 885-3421/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3421/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2902-16 MS	BH24-15 2'	Total/NA	Solid	SHAKE	
885-2902-16 MSD	BH24-15 2'	Total/NA	Solid	SHAKE	

Analysis Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8015D	3421
885-2902-2	BH24-08 2'	Total/NA	Solid	8015D	3421
885-2902-3	BH24-09 0'	Total/NA	Solid	8015D	3421
885-2902-4	BH24-09 2'	Total/NA	Solid	8015D	3421
885-2902-5	BH24-10 2'	Total/NA	Solid	8015D	3421
885-2902-6	BH24-10 4'	Total/NA	Solid	8015D	3421
885-2902-7	BH24-11 0'	Total/NA	Solid	8015D	3421
885-2902-8	BH24-11 2'	Total/NA	Solid	8015D	3421
885-2902-9	BH24-12 2'	Total/NA	Solid	8015D	3421
885-2902-10	BH24-12 4'	Total/NA	Solid	8015D	3421
885-2902-11	BH24-13 2'	Total/NA	Solid	8015D	3421
885-2902-12	BH24-13 4'	Total/NA	Solid	8015D	3421
885-2902-13	BH24-14 0'	Total/NA	Solid	8015D	3421

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Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

GC Semi VOA (Continued)

Analysis Batch: 3573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-14	BH24-14 2'	Total/NA	Solid	8015D	3421
885-2902-15	BH24-15 0'	Total/NA	Solid	8015D	3421
885-2902-16	BH24-15 2'	Total/NA	Solid	8015D	3421
MB 885-3421/1-A	Method Blank	Total/NA	Solid	8015D	3421
LCS 885-3421/2-A	Lab Control Sample	Total/NA	Solid	8015D	3421
885-2902-16 MS	BH24-15 2'	Total/NA	Solid	8015D	3421
885-2902-16 MSD	BH24-15 2'	Total/NA	Solid	8015D	3421

HPLC/IC

Leach Batch: 78599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Soluble	Solid	DI Leach	
885-2902-2	BH24-08 2'	Soluble	Solid	DI Leach	
885-2902-3	BH24-09 0'	Soluble	Solid	DI Leach	
885-2902-4	BH24-09 2'	Soluble	Solid	DI Leach	
885-2902-5	BH24-10 2'	Soluble	Solid	DI Leach	
885-2902-6	BH24-10 4'	Soluble	Solid	DI Leach	
885-2902-7	BH24-11 0'	Soluble	Solid	DI Leach	
885-2902-8	BH24-11 2'	Soluble	Solid	DI Leach	
885-2902-9	BH24-12 2'	Soluble	Solid	DI Leach	
885-2902-10	BH24-12 4'	Soluble	Solid	DI Leach	
885-2902-11	BH24-13 2'	Soluble	Solid	DI Leach	
885-2902-12	BH24-13 4'	Soluble	Solid	DI Leach	
885-2902-13	BH24-14 0'	Soluble	Solid	DI Leach	
885-2902-14	BH24-14 2'	Soluble	Solid	DI Leach	
MB 880-78599/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78599/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78599/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2902-5 MS	BH24-10 2'	Soluble	Solid	DI Leach	
885-2902-5 MSD	BH24-10 2'	Soluble	Solid	DI Leach	

Analysis Batch: 78704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Soluble	Solid	300.0	78599
885-2902-2	BH24-08 2'	Soluble	Solid	300.0	78599
885-2902-3	BH24-09 0'	Soluble	Solid	300.0	78599
885-2902-4	BH24-09 2'	Soluble	Solid	300.0	78599
885-2902-5	BH24-10 2'	Soluble	Solid	300.0	78599
885-2902-6	BH24-10 4'	Soluble	Solid	300.0	78599
885-2902-7	BH24-11 0'	Soluble	Solid	300.0	78599
885-2902-8	BH24-11 2'	Soluble	Solid	300.0	78599
885-2902-9	BH24-12 2'	Soluble	Solid	300.0	78599
885-2902-10	BH24-12 4'	Soluble	Solid	300.0	78599
885-2902-11	BH24-13 2'	Soluble	Solid	300.0	78599
885-2902-12	BH24-13 4'	Soluble	Solid	300.0	78599
885-2902-13	BH24-14 0'	Soluble	Solid	300.0	78599
885-2902-14	BH24-14 2'	Soluble	Solid	300.0	78599
MB 880-78599/1-A	Method Blank	Soluble	Solid	300.0	78599
LCS 880-78599/2-A	Lab Control Sample	Soluble	Solid	300.0	78599
LCSD 880-78599/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78599

Job ID: 885-2902-1 Client: Vertex

Project/Site: Big Eddy Unit DI 9 35H

HPLC/IC (Continued)

Analysis Batch: 78704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-5 MS	BH24-10 2'	Soluble	Solid	300.0	78599
885-2902-5 MSD	BH24-10 2'	Soluble	Solid	300.0	78599

Leach Batch: 78732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-15	BH24-15 0'	Soluble	Solid	DI Leach	
885-2902-16	BH24-15 2'	Soluble	Solid	DI Leach	
MB 880-78732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 78778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-15	BH24-15 0'	Soluble	Solid	300.0	78732
885-2902-16	BH24-15 2'	Soluble	Solid	300.0	78732
MB 880-78732/1-A	Method Blank	Soluble	Solid	300.0	78732
LCS 880-78732/2-A	Lab Control Sample	Soluble	Solid	300.0	78732
LCSD 880-78732/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78732

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

Client Sample ID: BH24-08 0'

Lab Sample ID: 885-2902-1

Date Collected: 04/14/24 09:45 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 02:16
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 02:16
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:19
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 09:53

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-2902-2 Date Collected: 04/14/24 09:55 **Matrix: Solid**

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 02:38
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 02:38
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:31
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 09:58

Lab Sample ID: 885-2902-3 Client Sample ID: BH24-09 0'

Date Collected: 04/14/24 10:00 **Matrix: Solid**

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 03:00
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 03:00
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:43
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:03

Client Sample ID: BH24-09 2' Lab Sample ID: 885-2902-4

Date Collected: 04/14/24 10:10 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	FFT ALB	04/18/24 03:21

Client: Vertex

Client Sample ID: BH24-09 2'

Date Collected: 04/14/24 10:10

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2902-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 03:21
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:55
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:08

Client Sample ID: BH24-10 2'

Date Collected: 04/14/24 10:25

Lab Sample ID: 885-2902-5

Matrix: Solid

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 03:43
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 03:43
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:07
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:13

Client Sample ID: BH24-10 4'

Date Collected: 04/14/24 13:30

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 04:05
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 04:05
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:20
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:27

Client Sample ID: BH24-11 0'

Date Collected: 04/14/24 10:30 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2902-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 04:49
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 04:49

Eurofins Albuquerque

Lab Sample ID: 885-2902-6

Matrix: Solid

Client Sample ID: BH24-11 0'

Date Collected: 04/14/24 10:30 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2902-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:32
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:32

Client Sample ID: BH24-11 2' Lab Sample ID: 885-2902-8 Date Collected: 04/14/24 10:40

Date Received: 04/16/24 07:55

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:10
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:10
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:44
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:46

Client Sample ID: BH24-12 2' Lab Sample ID: 885-2902-9

Date Collected: 04/14/24 10:55 Date Received: 04/16/24 07:55

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:32
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:32
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:56
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:51

Client Sample ID: BH24-12 4'

Date Collected: 04/14/24 13:35

Date Received: 04/16/24 07:55

Lab Sample I	ID: 885-2902-10
	Matrice Callel

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:54
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:54
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:08

Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

Client Sample ID: BH24-12 4'

Lab Sample ID: 885-2902-10 Date Collected: 04/14/24 13:35

Matrix: Solid

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:56

Lab Sample ID: 885-2902-11 Client Sample ID: BH24-13 2'

Date Collected: 04/14/24 11:10 **Matrix: Solid**

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:16
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:16
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:20
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		5	78704	SMC	EET MID	04/19/24 11:01

Client Sample ID: BH24-13 4' Lab Sample ID: 885-2902-12

Date Collected: 04/14/24 13:40 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:38
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:38
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:32
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:06

Client Sample ID: BH24-14 0' Lab Sample ID: 885-2902-13

Date Collected: 04/14/24 11:15 Matrix: Solid Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C		-	3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:59
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:59
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:45
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:10

Client Sample ID: BH24-14 2'

Lab Sample ID: 885-2902-14

Date Collected: 04/14/24 11:25 **Matrix: Solid** Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 07:21
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 07:21
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:57
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:15

Client Sample ID: BH24-15 0' Lab Sample ID: 885-2902-15

Date Collected: 04/14/24 11:30 **Matrix: Solid**

Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 07:43
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 07:43
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 01:09
Soluble	Leach	DI Leach			78732	SMC	EET MID	04/19/24 11:37
Soluble	Analysis	300.0		1	78778	SMC	EET MID	04/19/24 23:15

Client Sample ID: BH24-15 2' Lab Sample ID: 885-2902-16 Date Collected: 04/14/24 11:40 **Matrix: Solid**

Date Received: 04/16/24 07:55

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 08:05
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 08:05
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 01:21
Soluble	Leach	DI Leach			78732	SMC	EET MID	04/19/24 11:37
Soluble	Analysis	300.0		1	78778	SMC	EET MID	04/19/24 23:19

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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



Accreditation/Certification Summary

Client: Vertex Job ID: 885-2902-1

Project/Site: Big Eddy Unit DI 9 35H

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015D	5030C	Solid	Gasoline Range Or	ganics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Orga	nics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Or	ganics [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
jon	NELA	P	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Laboratory: Eurofins Midland

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

uthority	Progra	am	Identification Number	Expiration Date
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HALL ENVIROND **ANALYSIS LABO**

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Project Name ☑ Standard

Turn-Around Time.

Chain-of-Custody Record

Vertex (Bill to XTO Energy, Inc)

Client

www nallenvironmental com

		- AAAA		
Maılıng Address On file	Big Eddy Unit DI 9 35H	4901 Hawkins NE -	4901 Hawkins NE - Albuquerque, NM 87109	885-2902 COC
	Project #	Tel 505-345-3975	Fax 505-345-4107	
Phone #	24E-01314	Ai	Analysis Request	
email or Fax#	Project Manager		(}ui	
QA/QC Package	Sally Carttar		o, to	
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email or Fax#	r Fax#			Project Mana	ger		(1					* ∩°		(ju				
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				Cooler Temp(including cF).	ncluding CF).	十二二十十二	TM							olifo				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	N X3T8	08 H9T	8081 P6 M) BQ3	d sHA9	AROR S	85e0 (/ Cl)'E' E	S) 07S8	O latoT	···········			
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04 14 24	9 55	Soll	BH24-08 2'	1, 4oz jar		2	×					×					-	
04 14 24	10 00	Soil	BH24-09 0'	1, 4oz jar		3	×	×				×						
04 14 24	10 10	Soul	BH24-09 2'	1, 4oz jar		ב	×	×				×						
04 14 24	10 25	Soil	BH24-10 2'	1, 4oz jar		\$	×	×				×						
04 14 24	13 30	Soil	BH24-10 4'	1, 4oz jar		٩	×	×	_			×						
04 14 24	10 30	Soil	BH24-11 0'	1, 4oz jar		7+	×	×				×						_
04 14 24	10 40	Soil	BH24-11 2'	1, 4oz jar		00	×	×				×					-	
04 14 24	10 55	Sol	BH24-12 2'	1, 4oz jar		6-	×	×				×						
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	If necessary	samples su	f necessary samples submitted to Hall Environmental may be subcontracted to the analytical reports and notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	ontracted to ther ac	credited laboratori	ies This serves as notice of this	i possibi	ity An	/ sub-co	ntracted	data w	ill be clea	rly notat	ed on the	analytic	al repor	4.1	

Page 36 of 40

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4901 Hawkins NE Albuquerque NM 87109 Phone 505-345-3975 Fax: 505-345-4107 **Eurofins Albuquerque**

Chain of Custody Record

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Environment Testing

Phone		E-Mail	E-Mail		State	of Origin		Page	
		andy f	ireeman@et.eu		New	Mexico		Page 1 of 2	
		7 >	Accreditations Required NELAP - Orego	uired (See note) on NELAP - Te;	kas, State - N	ew Mexico		Job #: 885-2902-1	
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Da	ite		Time		C	Method of Shipm	ent:		
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			Cooler Ter	nperature(s) °C and	Other Remarks				
	Due Date Requested 4/122/12024 TAT Requested (days) PO #: WO #: WO #: 88501279 SSOW#: 4/14/24 4/14/24 4/14/24 4/14/24 4/14/24 M4/14/24 M4/	Due Date Requested 4/12/2/2024 TAT Requested (days) PO #: WO #: WO #: WO #: Sample Sample C=come C=c	Sample Sample C=Comp, Solid Solid	Iterating Date Da	Company Company Company Congratured Cong	Transpect (days) Transpect to June 1 (days) Transpect to	### Date Requested #### Date Requested ##### Date Requested ##### Date Requested ####################################	## Date Requested ## Date Requ	Page Page

Albuquerque NM 87109 4901 Hawkins NE

Eurofins Albuquerque

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Chain of Custody Record

BH24-14 0' (885-2902-13) State Zip: TX 79701 BH24-15 2' (885-2902-16) BH24-15 0' (885-2902-15) BH24-14 2' (885-2902-14) BH24-13 4' (885-2902-12) BH24-13 2' (885-2902-11) BH24-12 4' (885-2902-10) Project Name. Big Eddy Unit DI 9 35H Empty Kit Relinquished by Deliverable Requested | II, III, IV Other (specify) 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 aboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention 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. Possible Hazard Identification Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Phone 505-345-3975 Fax 505-345-4107 elinquished by: Eurofins Environment Testing South Centr Client Information (Sub Contract Lab) /lidland 211 W Florida Ave Shipping/Receiving elinquished by Custody Seals Intact: confirmed Yes No Custody Seal No Sampler Primary Deliverable Rank **∀**0 PO# Date/Time Date/Time SSOW# 88501279 TAT Requested (days) Due Date Requested Phone Sample Date 4/14/24 4/14/24 4/14/24 4/14/24 4/14/24 4/14/24 4/14/24 Mountain 11 10 Date Mountain 11 30 Mountain 11 25 Mountain 11 40 Mountain Mountain 11 15 Mountain 13 40 Time (C=comp, G=grab) Sample Preservation Code Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid andy freeman@et.eurofinsus com Freeman, Andy ıme NELAP - Oregon NELAP - Texas State - New Mexico Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements editations Required (See note) Received by Cooler Temperature(s) °C and Other Remarks Redeived by × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride Return To Client Analysis Requested Disposal By Lab State of Origin
New Mexico Camer Tracking No(s) od of Shipment: Date/Time Date/Time Date/Time Archive For **Total Number of containers** ©⊕©∘No: 885-432 2 Preservation Codes 885-2902-1 Page 2 of 2 Page: Other Special Instructions/Note. Company Company Company **Months**

Environment Testing

eurofins 🔆

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2902-1

List Source: Eurofins Albuquerque Login Number: 2902

List Number: 1

Creator: Casarrubias, Tracy

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2902-1

List Source: Eurofins Midland
List Number: 2
List Creation: 04/18/24 11:59 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/6/2024 2:03:16 PM

JOB DESCRIPTION

Big Eddy Unit DI 9 35H

JOB NUMBER

885-3596-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

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

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Client: Vertex Laboratory Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

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Definitions/Glossary

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Qualifiers

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

Glossary

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

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count **TNTC**

Case Narrative

Client: Vertex Job ID: 885-3596-1

Project: Big Eddy Unit DI 9 35H

Job ID: 885-3596-1 Eurofins Albuquerque

Job Narrative 885-3596-1

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 4/30/2024 7:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The <AffectedAnalytBH24-22 0ft (885-3596-1), BH24-22 2ft (885-3596-2), BH24-24 0ft (885-3596-3), BH24-24 2ft (885-3596-4), BH24-25 0ft (885-3596-5), BH24-25 2ft (885-3596-6), BH24-27 0ft (885-3596-7), BH24-27 2ft (885-3596-8), BH24-29 0ft (885-3596-9), BH24-29 2ft (885-3596-B-1-B MS) and (885-3596-B-1-C MSD) es> matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-79939 and 880-79939 and analytical batch 880-79961 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.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-79939 and analytical batch 880-79961 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

BH24-30 0ft (885-3596-11), BH24-30 2ft (885-3596-12), (885-3596-B-11-B MS) and (885-3596-B-11-C MSD)

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

Eurofins Albuquerque

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Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-22 Oft Lab Sample ID: 885-3596-1

Date Collected: 04/26/24 10:00 Matrix: Solid

Date Received: 04/30/24 07:47

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 12:06	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 12:06	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.4	mg/Kg		05/02/24 11:24	05/02/24 16:33	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/24 11:24	05/02/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			05/02/24 11:24	05/02/24 16:33	1

Method: EPA 300.0 - Anions, Ion Ch	hromatograpi	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	F1	5.0	mg/Kg			05/04/24 05:02	1

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte

Result Qualifier

Client Sample ID: BH24-22 2ft Lab Sample ID: 885-3596-2

Date Collected: 04/26/24 10:15 Matrix: Solid

Date Received: 04/30/24 07:47

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 12:29	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Ethylbenzene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Toluene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Xylenes, Total	ND		0.098	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 12:29	1
- Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/02/24 11:24	05/02/24 16:57	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/24 11:24	05/02/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/02/24 11:24	05/02/24 16:57	

5.0 05/04/24 05:21 Chloride 65 mg/Kg

RL

Unit

Prepared

Eurofins Albuquerque

Dil Fac

Analyzed

Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-24 Oft

Lab Sample ID: 885-3596-3 Date Collected: 04/26/24 10:45

Matrix: Solid

Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 12:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Xylenes, Total	ND		0.097	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 12:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/02/24 11:24	05/02/24 17:21	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/02/24 11:24	05/02/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/02/24 11:24	05/02/24 17:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	570	5.0	mg/Kg			05/04/24 05:27	1

Client Sample Results

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-24 2ft

Lab Sample ID: 885-3596-4

Matrix: Solid

Date Collected: 04/26/24 11:00 Date Received: 04/30/24 07:47

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/30/24 16:06	05/01/24 13:16	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Ethylbenzene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Toluene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Xylenes, Total	ND		0.099	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		39 - 146			04/30/24 16:06	05/01/24 13:16	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/24 11:24	05/02/24 17:45	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/24 11:24	05/02/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/02/24 11:24	05/02/24 17:45	

RL

5.0

Result Qualifier

410

Unit

mg/Kg

Prepared

Analyte

Chloride

Dil Fac

Analyzed

05/04/24 05:33

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-25 0ft

Lab Sample ID: 885-3596-5 Date Collected: 04/26/24 11:15

Matrix: Solid

05/02/24 11:24

05/02/24 18:08

Date Received: 04/30/24 07:47

Di-n-octyl phthalate (Surr)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 13:39	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Ethylbenzene	ND		0.046	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Toluene	ND		0.046	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Xylenes, Total	ND		0.092	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 13:39	1
- Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		8.7	mg/Kg		05/02/24 11:24	05/02/24 18:08	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/02/24 11:24	05/02/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	330		5.0	mg/Kg			05/04/24 05:40	1

62 - 134

95

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-25 2ft

Lab Sample ID: 885-3596-6 Date Collected: 04/26/24 11:30

Matrix: Solid

Date Received: 04/30/24 07:47

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 14:03	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Xylenes, Total	ND		0.097	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 14:03	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/24 11:24	05/02/24 18:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/24 11:24	05/02/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/02/24 11:24	05/02/24 18:32	1

RL

5.0

Result Qualifier

320

Unit

mg/Kg

Prepared

Dil Fac

Analyzed

05/04/24 05:59

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-27 0ft Lab Sample ID: 885-3596-7

Date Collected: 04/26/24 11:45

Date Received: 04/30/24 07:47

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 14:26	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Ethylbenzene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Toluene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Xylenes, Total	ND		0.094	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 14:26	1
- Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/02/24 11:24	05/02/24 18:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/24 11:24	05/02/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88	· 	62 - 134			05/02/24 11:24	05/02/24 18:56	

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150	5.0	mg/Kg			05/04/24 06:05	1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-27 2ft

Lab Sample ID: 885-3596-8 Date Collected: 04/26/24 12:00

Matrix: Solid

Date Received: 04/30/24 07:47

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/30/24 16:06	05/01/24 14:50	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 14:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		05/02/24 11:24	05/03/24 14:46	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/02/24 11:24	05/03/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			05/02/24 11:24	05/03/24 14:46	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		5.0	mg/Kg			05/04/24 06:11	1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-29 0ft

Date Received: 04/30/24 07:47

Date Collected: 04/26/24 12:30

Lab Sample ID: 885-3596-9

		V	la	tri	x:	S	oli	d

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 244			04/30/24 16:06	05/01/24 15:13	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Ethylbenzene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Toluene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Xylenes, Total	ND		0.095	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/30/24 16:06	05/01/24 15:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/02/24 11:24	05/03/24 15:09	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/02/24 11:24	05/03/24 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/02/24 11:24	05/03/24 15:09	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		5.0	mg/Kg			05/04/24 06:17	1

Client Sample Results

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-29 2ft

Date Collected: 04/26/24 12:45 Date Received: 04/30/24 07:47 Lab Sample ID: 885-3596-10

 •		
	Matrix:	Solid

Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 16:00	1

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.025	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Ethylbenzene	ND	0.049	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Toluene	ND	0.049	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Xylenes, Total	ND	0.099	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Surrogate	%Recovery Qua	ualifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	39 - 146			04/30/24 16:06	05/01/24 16:00	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/24 11:24	05/03/24 15:33	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/24 11:24	05/03/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			05/02/24 11:24	05/03/24 15:33	1

Method: EPA 300.0 - Anions, Ion Ch	nromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25	5.1	mg/Kg			05/04/24 06:24	1

Client Sample Results

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-30 Oft

Lab Sample ID: 885-3596-11 Date Collected: 04/26/24 13:00

Matrix: Solid

05/02/24 11:24

Prepared

05/02/24 11:24

05/02/24 20:54

Analyzed

05/02/24 20:54

Dil Fac

Date Received: 04/30/24 07:47

Motor Oil Range Organics [C28-C40]

Di-n-octyl phthalate (Surr)

Surrogate

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 16:24	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 16:24	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	()					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND.		9.6	mg/Kg		05/02/24 11:24	05/02/24 20:54	

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470	F1	5.0	mg/Kg			05/04/24 06:30	1

62 - 134

48

mg/Kg

ND

94

Qualifier

%Recovery

Client Sample Results

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-30 2ft

Date Collected: 04/26/24 13:15 Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-12

~	- dip.	 		
		Ma	trix: 9	hilo

Method: SW846 8015D - Gasoline	e Range Orgar	nics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 16:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Xylenes, Total	ND		0.095	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		39 - 146			04/30/24 16:06	05/01/24 16:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/02/24 11:24	05/02/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/24 11:24	05/02/24 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/02/24 11:24	05/02/24 21:18	1

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540	5.0	mg/Kg			05/04/24 06:49	1

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-4138/1-A

Analysis Batch: 4186

Matrix: Solid

MB

Client Sample ID: Method Blank

%Rec

Prep Type: Total/NA

Prep Batch: 4138

Prep Batch: 4138

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 04/30/24 16:06 05/01/24 11:19

MB MB

MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 244 04/30/24 16:06 05/01/24 11:19

Lab Sample ID: LCS 885-4138/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 4186

Spike LCS LCS

Analyte Added Result Qualifier Unit D %Rec Limits 25.0 25.5 102 mg/Kg 70 - 130Gasoline Range Organics [C6 -

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 204 15 - 244 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-3596-1 MS Client Sample ID: BH24-22 Oft

Matrix: Solid

Analysis Batch: 4186

Prep Type: Total/NA Prep Batch: 4138

Sample Sample Spike MS MS Result Qualifier Added Qualifier Analyte Result Unit D %Rec Limits 23.8 Gasoline Range Organics [C6 -ND 26.7 mg/Kg 112 70 - 130

C10]

MS MS

%Recovery Qualifier Limits Surrogate 220 15 - 244

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-3596-1 MSD

Matrix: Solid

Analysis Batch: 4186

Prep Type: Total/NA

Sample Sample MSD MSD Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 23.7 27.1 mg/Kg 114 70 - 130

C10]

MSD MSD

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4138/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA **Analysis Batch: 4187** Prep Batch: 4138

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 0.025 Benzene ND mg/Kg 04/30/24 16:06 05/01/24 11:19 Ethylbenzene ND 0.050 mg/Kg 04/30/24 16:06 05/01/24 11:19 ND 0.050 Toluene 04/30/24 16:06 05/01/24 11:19 mg/Kg

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Client Sample ID: BH24-22 0ft

Prep Batch: 4138 RPD

Limit

Project/Site: Big Eddy Unit DI 9 35H

Lab Sample ID: MB 885-4138/1-A

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

Matrix: Solid

Analysis Batch: 4187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4138

Xylenes, Total ND 0.10 mg/Kg 04/30/24 16:06 05/01/24 11:19	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Xylenes, Total	ND		0.10	mg/Kg		04/30/24 16:06	03/01/24 11.13	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 39 - 146 04/30/24 16:06 05/01/24 11:19

Lab Sample ID: LCS 885-4138/3-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analyte

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Analysis Batch: 4187

Prep Type: Total/NA

Prep Batch: 4138

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 1.00 1.04 mg/Kg 104 70 - 130 1.00 0.989 mg/Kg 99 70 - 130 2.00 2.00 mg/Kg 100 70 - 130

mg/Kg

mg/Kg

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 98 39 - 146

Lab Sample ID: 885-3596-2 MS Client Sample ID: BH24-22 2ft

0.984

0.982

1.00

1.00

Matrix: Solid

Analysis Batch: 4187

98

98

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 4138

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.981	1.13		mg/Kg		115	70 - 130	
Ethylbenzene	ND		0.981	1.11		mg/Kg		113	70 - 130	
m,p-Xylene	ND		1.96	2.26		mg/Kg		115	70 - 130	
o-Xylene	ND		0.981	1.11		mg/Kg		113	70 - 130	
Toluene	ND		0.981	1.09		mg/Kg		111	70 - 130	
	MS	MS								

%Recovery Qualifier Limits Surrogate 39 - 146 4-Bromofluorobenzene (Surr) 100

Lab Sample ID: 885-3596-2 MSD Client Sample ID: BH24-22 2ft

Matrix: Solid

Analysis Batch: 4187

Prep Type: Total/NA

Prep Batch: 4138

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.976	1.08		mg/Kg		111	70 - 130	5	20
Ethylbenzene	ND		0.976	1.05		mg/Kg		108	70 - 130	5	20
m,p-Xylene	ND		1.95	2.11		mg/Kg		108	70 - 130	7	20
o-Xylene	ND		0.976	1.04		mg/Kg		107	70 - 130	7	20
Toluene	ND		0.976	1.02		mg/Kg		105	70 - 130	6	20

MSD MSD

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

RL

10

50

Limits

Spike

Added

Limits

62 - 134

Spike

Added

Spike

Added

250

250

RL

5.0

50.0

62 - 134

Unit

mg/Kg

mg/Kg

LCS LCS

Qualifier

Unit

LCS LCS

LCSD LCSD

MS MS

Result

234

Qualifier

Qualifier

Result

234

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

Result

51.4

D

Prepared

05/02/24 11:24

05/02/24 11:24

Prepared

05/02/24 11:24

%Rec

Prepared

%Rec

%Rec

103

D

D

D

Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-4253/1-A

Analysis Batch: 4346

Matrix: Solid

MB MB Analyte Result Qualifier

	-	_	-	-		
					MB	MB
Surrogate					%Recovery	Qualifier

Di-n-octyl phthalate (Surr)

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Lab Sample ID: LCS 885-4253/2-A

Matrix: Solid Analysis Batch: 4346

Analyte Diesel Range Organics [C10-C28]

Surrogate Di-n-octyl phthalate (Surr)

%Recovery Qualifier

97

мв мв

LCS LCS

ND

ND

95

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79939/1-A

Matrix: Solid

Analysis Batch: 79961

Analyte Result Qualifier Chloride ND

Lab Sample ID: LCS 880-79939/2-A **Matrix: Solid**

Analysis Batch: 79961

Analyte

Chloride

Lab Sample ID: LCSD 880-79939/3-A **Matrix: Solid**

Analysis Batch: 79961

Analyte

Chloride Lab Sample ID: 885-3596-1 MS

Matrix: Solid

Analysis Batch: 79961

Sample Sample Analyte Result Qualifier Chloride 130 F1

Spike Added 249

Result 343 F1

Qualifier

Unit mg/Kg

%Rec

Limits 84

90 - 110

Dil Fac

Dil Fac

Client Sample ID: Method Blank

Analyzed

05/02/24 15:45

05/02/24 15:45

Analyzed

05/02/24 15:45

Client Sample ID: Lab Control Sample

Limits

60 - 135

Client Sample ID: Method Blank

Analyzed

05/04/24 04:43

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

%Rec

Limits

90 - 110

%Rec

Client Sample ID: BH24-22 Oft

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Dil Fac

RPD

Limit

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 4253

Prep Batch: 4253

QC Sample Results

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Chloride

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-3596-1 MSD Client Sample ID: BH24-22 0ft

Matrix: Solid

470 F1

Prep Type: Soluble

Analysis Batch: 79961

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits RPD Limit Chloride 130 F1 249 343 F1 mg/Kg 84 90 - 110 0

Lab Sample ID: 885-3596-11 MS Client Sample ID: BH24-30 0ft

mg/Kg

85

90 - 110

677 F1

Matrix: Solid Prep Type: Soluble Analysis Batch: 79961

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits

Lab Sample ID: 885-3596-11 MSD Client Sample ID: BH24-30 0ft

Matrix: Solid Prep Type: Soluble

Analysis Batch: 79961 MSD MSD %Rec Spike

248

RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 470 F1 248 687 F1 90 - 110 20 mg/Kg

QC Association Summary

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA

Prep Batch: 4138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-2	BH24-22 2ft	Total/NA	Solid	5030C	
885-3596-3	BH24-24 0ft	Total/NA	Solid	5030C	
885-3596-4	BH24-24 2ft	Total/NA	Solid	5030C	
885-3596-5	BH24-25 0ft	Total/NA	Solid	5030C	
885-3596-6	BH24-25 2ft	Total/NA	Solid	5030C	
885-3596-7	BH24-27 0ft	Total/NA	Solid	5030C	
885-3596-8	BH24-27 2ft	Total/NA	Solid	5030C	
885-3596-9	BH24-29 0ft	Total/NA	Solid	5030C	
885-3596-10	BH24-29 2ft	Total/NA	Solid	5030C	
885-3596-11	BH24-30 0ft	Total/NA	Solid	5030C	
885-3596-12	BH24-30 2ft	Total/NA	Solid	5030C	
MB 885-4138/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4138/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4138/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3596-1 MS	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-1 MSD	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-2 MS	BH24-22 2ft	Total/NA	Solid	5030C	
885-3596-2 MSD	BH24-22 2ft	Total/NA	Solid	5030C	

Analysis Batch: 4186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	8015D	4138
885-3596-2	BH24-22 2ft	Total/NA	Solid	8015D	4138
885-3596-3	BH24-24 0ft	Total/NA	Solid	8015D	4138
885-3596-4	BH24-24 2ft	Total/NA	Solid	8015D	4138
885-3596-5	BH24-25 0ft	Total/NA	Solid	8015D	4138
885-3596-6	BH24-25 2ft	Total/NA	Solid	8015D	4138
885-3596-7	BH24-27 0ft	Total/NA	Solid	8015D	4138
885-3596-8	BH24-27 2ft	Total/NA	Solid	8015D	4138
885-3596-9	BH24-29 0ft	Total/NA	Solid	8015D	4138
885-3596-10	BH24-29 2ft	Total/NA	Solid	8015D	4138
885-3596-11	BH24-30 0ft	Total/NA	Solid	8015D	4138
885-3596-12	BH24-30 2ft	Total/NA	Solid	8015D	4138
MB 885-4138/1-A	Method Blank	Total/NA	Solid	8015D	4138
LCS 885-4138/2-A	Lab Control Sample	Total/NA	Solid	8015D	4138
885-3596-1 MS	BH24-22 0ft	Total/NA	Solid	8015D	4138
885-3596-1 MSD	BH24-22 0ft	Total/NA	Solid	8015D	4138

Analysis Batch: 4187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	8021B	4138
885-3596-2	BH24-22 2ft	Total/NA	Solid	8021B	4138
885-3596-3	BH24-24 0ft	Total/NA	Solid	8021B	4138
885-3596-4	BH24-24 2ft	Total/NA	Solid	8021B	4138
885-3596-5	BH24-25 0ft	Total/NA	Solid	8021B	4138
885-3596-6	BH24-25 2ft	Total/NA	Solid	8021B	4138
885-3596-7	BH24-27 Oft	Total/NA	Solid	8021B	4138
885-3596-8	BH24-27 2ft	Total/NA	Solid	8021B	4138
885-3596-9	BH24-29 0ft	Total/NA	Solid	8021B	4138
885-3596-10	BH24-29 2ft	Total/NA	Solid	8021B	4138

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QC Association Summary

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

GC VOA (Continued)

Analysis Batch: 4187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-11	BH24-30 0ft	Total/NA	Solid	8021B	4138
885-3596-12	BH24-30 2ft	Total/NA	Solid	8021B	4138
MB 885-4138/1-A	Method Blank	Total/NA	Solid	8021B	4138
LCS 885-4138/3-A	Lab Control Sample	Total/NA	Solid	8021B	4138
885-3596-2 MS	BH24-22 2ft	Total/NA	Solid	8021B	4138
885-3596-2 MSD	BH24-22 2ft	Total/NA	Solid	8021B	4138

GC Semi VOA

Prep Batch: 4253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 Oft	Total/NA	Solid	SHAKE	
885-3596-2	BH24-22 2ft	Total/NA	Solid	SHAKE	
885-3596-3	BH24-24 0ft	Total/NA	Solid	SHAKE	
885-3596-4	BH24-24 2ft	Total/NA	Solid	SHAKE	
885-3596-5	BH24-25 0ft	Total/NA	Solid	SHAKE	
885-3596-6	BH24-25 2ft	Total/NA	Solid	SHAKE	
885-3596-7	BH24-27 0ft	Total/NA	Solid	SHAKE	
885-3596-8	BH24-27 2ft	Total/NA	Solid	SHAKE	
885-3596-9	BH24-29 0ft	Total/NA	Solid	SHAKE	
885-3596-10	BH24-29 2ft	Total/NA	Solid	SHAKE	
885-3596-11	BH24-30 Oft	Total/NA	Solid	SHAKE	
885-3596-12	BH24-30 2ft	Total/NA	Solid	SHAKE	
MB 885-4253/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4253/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 Oft	Total/NA	Solid	8015D	4253
885-3596-2	BH24-22 2ft	Total/NA	Solid	8015D	4253
885-3596-3	BH24-24 0ft	Total/NA	Solid	8015D	4253
885-3596-4	BH24-24 2ft	Total/NA	Solid	8015D	4253
885-3596-5	BH24-25 0ft	Total/NA	Solid	8015D	4253
885-3596-6	BH24-25 2ft	Total/NA	Solid	8015D	4253
885-3596-7	BH24-27 0ft	Total/NA	Solid	8015D	4253
885-3596-11	BH24-30 Oft	Total/NA	Solid	8015D	4253
885-3596-12	BH24-30 2ft	Total/NA	Solid	8015D	4253
MB 885-4253/1-A	Method Blank	Total/NA	Solid	8015D	4253
LCS 885-4253/2-A	Lab Control Sample	Total/NA	Solid	8015D	4253

Analysis Batch: 4408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-8	BH24-27 2ft	Total/NA	Solid	8015D	4253
885-3596-9	BH24-29 0ft	Total/NA	Solid	8015D	4253
885-3596-10	BH24-29 2ft	Total/NA	Solid	8015D	4253

HPLC/IC

Leach Batch: 79939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-2	BH24-22 2ft	Soluble	Solid	DI Leach	

QC Association Summary

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

HPLC/IC (Continued)

Leach Batch: 79939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-3	BH24-24 Oft	Soluble	Solid	DI Leach	
885-3596-4	BH24-24 2ft	Soluble	Solid	DI Leach	
885-3596-5	BH24-25 0ft	Soluble	Solid	DI Leach	
885-3596-6	BH24-25 2ft	Soluble	Solid	DI Leach	
885-3596-7	BH24-27 0ft	Soluble	Solid	DI Leach	
885-3596-8	BH24-27 2ft	Soluble	Solid	DI Leach	
885-3596-9	BH24-29 0ft	Soluble	Solid	DI Leach	
885-3596-10	BH24-29 2ft	Soluble	Solid	DI Leach	
885-3596-11	BH24-30 Oft	Soluble	Solid	DI Leach	
885-3596-12	BH24-30 2ft	Soluble	Solid	DI Leach	
MB 880-79939/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79939/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79939/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-3596-1 MS	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-1 MSD	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-11 MS	BH24-30 0ft	Soluble	Solid	DI Leach	
885-3596-11 MSD	BH24-30 0ft	Soluble	Solid	DI Leach	

Analysis Batch: 79961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 Oft	Soluble	Solid	300.0	79939
885-3596-2	BH24-22 2ft	Soluble	Solid	300.0	79939
885-3596-3	BH24-24 0ft	Soluble	Solid	300.0	79939
885-3596-4	BH24-24 2ft	Soluble	Solid	300.0	79939
885-3596-5	BH24-25 0ft	Soluble	Solid	300.0	79939
885-3596-6	BH24-25 2ft	Soluble	Solid	300.0	79939
885-3596-7	BH24-27 0ft	Soluble	Solid	300.0	79939
885-3596-8	BH24-27 2ft	Soluble	Solid	300.0	79939
885-3596-9	BH24-29 0ft	Soluble	Solid	300.0	79939
885-3596-10	BH24-29 2ft	Soluble	Solid	300.0	79939
885-3596-11	BH24-30 0ft	Soluble	Solid	300.0	79939
885-3596-12	BH24-30 2ft	Soluble	Solid	300.0	79939
MB 880-79939/1-A	Method Blank	Soluble	Solid	300.0	79939
LCS 880-79939/2-A	Lab Control Sample	Soluble	Solid	300.0	79939
LCSD 880-79939/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79939
885-3596-1 MS	BH24-22 0ft	Soluble	Solid	300.0	79939
885-3596-1 MSD	BH24-22 0ft	Soluble	Solid	300.0	79939
885-3596-11 MS	BH24-30 0ft	Soluble	Solid	300.0	79939
885-3596-11 MSD	BH24-30 Oft	Soluble	Solid	300.0	79939

1

79939 SA

79961 SMC

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

Soluble

Soluble

Client Sample ID: BH24-22 Oft

Lab Sample ID: 885-3596-1

Date Collected: 04/26/24 10:00 Date Received: 04/30/24 07:47

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 04/30/24 16:06 Total/NA Prep 5030C 4138 JP EET ALB Total/NA Analysis 8015D 1 4186 JP **EET ALB** 05/01/24 12:06 Total/NA Prep 5030C 4138 JΡ **EET ALB** 04/30/24 16:06 Total/NA Analysis 8021B 1 4187 JΡ **EET ALB** 05/01/24 12:06 Total/NA Prep SHAKE 4253 JU **EET ALB** 05/02/24 11:24 Total/NA Analysis 8015D 1 4346 JU **EET ALB** 05/02/24 16:33

Lab Sample ID: 885-3596-2

05/03/24 13:25

05/04/24 05:02

EET MID

EET MID

Matrix: Solid

Date Collected: 04/26/24 10:15 Date Received: 04/30/24 07:47

Client Sample ID: BH24-22 2ft

Leach

Analysis

DI Leach

300.0

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed 5030C 04/30/24 16:06 Total/NA Prep 4138 **EET ALB** Total/NA 05/01/24 12:29 8015D Analysis 1 4186 JΡ **EET ALB** Total/NA 5030C 4138 JΡ **EET ALB** 04/30/24 16:06 Prep Total/NA Analysis 8021B 1 4187 JP **EET ALB** 05/01/24 12:29 Total/NA SHAKE EET ALB 05/02/24 11:24 Prep 4253 JU Total/NA Analysis 8015D 1 4346 JU **EET ALB** 05/02/24 16:57 Soluble DI Leach SA **EET MID** 05/03/24 13:25 Leach 79939 Soluble Analysis 300.0 1 79961 SMC **EET MID** 05/04/24 05:21

Client Sample ID: BH24-24 0ft

Date Collected: 04/26/24 10:45

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 12:52
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 12:52
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 17:21
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:27

Client Sample ID: BH24-24 2ft

Date Collected: 04/26/24 11:00

Date Received: 04/30/24 07:47

Lab Sam	ple ID: 885-3596-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 13:16

Client: Vertex

Client Sample ID: BH24-24 2ft

Date Collected: 04/26/24 11:00 Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 13:16
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 17:45
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:33

Client Sample ID: BH24-25 Oft

Date Collected: 04/26/24 11:15 Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 13:39
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 13:39
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 18:08
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:40

Client Sample ID: BH24-25 2ft

Date Collected: 04/26/24 11:30

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 14:03
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 14:03
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 18:32
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:59

Client Sample ID: BH24-27 0ft

Date Collected: 04/26/24 11:45

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 14:26
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 14:26

Client: Vertex

Client Sample ID: BH24-27 0ft

Date Collected: 04/26/24 11:45

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 18:56
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:05

Client Sample ID: BH24-27 2ft

Date Collected: 04/26/24 12:00

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-8

Matrix: Solid

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C JP EET ALB 04/30/24 16:06 Prep 4138 Total/NA 8015D Analysis 4186 JP **EET ALB** 05/01/24 14:50 1 Total/NA Prep 5030C 4138 JΡ **EET ALB** 04/30/24 16:06 8021B Total/NA 4187 JP **EET ALB** 05/01/24 14:50 Analysis 1 Total/NA SHAKE **EET ALB** 05/02/24 11:24 Prep 4253 JU Total/NA Analysis 8015D JU **EET ALB** 05/03/24 14:46 1 4408 Soluble 05/03/24 13:25 Leach DI Leach 79939 SA **EET MID** 79961 SMC Soluble Analysis 300.0 1 **EET MID** 05/04/24 06:11

Client Sample ID: BH24-29 0ft

Date Collected: 04/26/24 12:30

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-9

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 15:13
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 15:13
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4408	JU	EET ALB	05/03/24 15:09
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:17

Client Sample ID: BH24-29 2ft

Date Collected: 04/26/24 12:45

Date Received: 04/30/24 07:47

Lab Sample ID: 885-3596-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:00
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:00
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4408	JU	EET ALB	05/03/24 15:33

Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-29 2ft

Lab Sample ID: 885-3596-10 Date Collected: 04/26/24 12:45

Matrix: Solid

Date Received: 04/30/24 07:47

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:24

Client Sample ID: BH24-30 0ft

Lab Sample ID: 885-3596-11

Date Collected: 04/26/24 13:00 Date Received: 04/30/24 07:47

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:24
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:24
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 20:54
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:30

Client Sample ID: BH24-30 2ft

Lab Sample ID: 885-3596-12

Matrix: Solid

Date Collected: 04/26/24 13:15 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:47
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:47
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 21:18
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:49

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-3596-1

Project/Site: Big Eddy Unit DI 9 35H

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015D	5030C	Solid	Gasoline Range Orga	anics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organi	cs [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Orga	anics [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
gon	NELA	P	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Laboratory: Eurofins Midland

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

Authority		am	Identification Number	Expiration Date
Texas	NELAF)	T104704400-23-26	06-30-24
The following analytes	are included in this report bu	t the laboratory is not certif	ied by the governing authority. This lis	st may include analyte
• •	are included in this report, bu oes not offer certification .	t the laboratory is not certif	ied by the governing authority. This lis	st may include analyte
• •	•	t the laboratory is not certif Matrix	ied by the governing authority. This lis Analyte	st may include analyte

Eurofins Albuquerque

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				Project # 01314	14			<u>a</u>	505-3	505-345-3975		Fax	505	505-345-4107)7	885-35	885-3596 COC	
Phone #	On File										An	Analysis Request	s Req	uest				
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	N X∃T8	08 H9T	9 1808 M) 80∃	sHA9	RCRA - CA	С Д) F, 1 8260 (/	8) 0728	O latoT				
04/26/24	10 00	Soil	BH24-22 0 ft	1, 4oz jar		_	×	×				×						
04/26/24	10 15	Soil	BH24-22 2 ft	1, 4oz jar		2	×	×				×						
04/26/24	10 45	Soil	BH24-24 Oft	1, 4oz jar		80	×	×				×						
04/26/24	11 00	Soil	BH24-24 2ft	1, 4oz jar		ァ	×	×				×						
04/26/24	11 15	Soil	BH24-25 0ft	1, 4oz jar		15	×	×				×						
04/26/24	11 30	Soil	BH24-25 2ft	1, 4oz jar		ې	×	×				×						
04/26/24	11 45	Soil	BH24-27 0 ft	1, 4oz jar		(+	×	×				×						
04/26/24	12 00	Soil	BH24-27 2ft	1, 4oz jar		හ	×	×				×					_	
04/26/24	12 30	Soil	BH24-29 Oft	1, 4oz jar		σ	×	×				×						
04/26/24	12 45	Soil	BH24-29 2ft	1, 4oz jar		10	×	×				×						
04/26/24	13 00	Soil	BH24-30 0ft	1, 4oz jar		11	×	×				×						
04/26/24	13 15	Soil	2ft	1, 4oz jar		12	×	×				×						
Date	Time	Relinduish	Relinquished by Wyatt Wadleigh	Received by	Via	Date Time	Remarks		Pleas	e CC	wwac	Please CC wwadleigh@vertex ca	@ver	ех са				
				PWAAAAAA	1/20 CMY	4/20/24 945	Cost	cente	Ž Ž	Cost center Number	1140	1140661001	_					
Date //	Time	Relinquished by	ed by	Received by	Via Via Via	Date Time												
Mapre	19/12/ 1900	Char	1900 allumanos	The second secon	الإنتيانية على الإنتيانية المستون الم الما المستون ا	5 1												
	if necessary	samples sut	bmitted to Hall Environmental may be subc	contracted to other ac	other accredited laboratories	s. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	s possib	lity An	y sub-c	ontracte	d data w	ill be cle	arly not	ated on the	analytica	al report		

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3596-1

Login Number: 3596 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3596-1

Login Number: 3596 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/03/24 11:32 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



August 19, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 9 35H

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 12:58.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 01 1FT (H244947-01)

mg/kg

BTEX 8021B

BIEX GOEED	9/	9	Analyze	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

BIG EDDY UNIT DI 9 35H

mg/kg

Project Name: BIG EDDY I Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 02 1FT (H244947-02)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



08/13/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

mg/kg

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 03 1FT (H244947-03)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: BS 24 - 05 3FT (H244947-04)

RTFY 8021R

BIEX 8021B	mg/kg		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: 14

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Celeg & Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024

mg/kg

Reported: 08/19/2024
Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 06 1FT (H244947-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: BS 24 - 07 1FT (H244947-06)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	221	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	68.8	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

mg/kg

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 08 1FT (H244947-07)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 09 1FT (H244947-08)

mg/kg

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 10 1FT (H244947-09)

mg/kg

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 11 1FT (H244947-10)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

mg/kg

Project Number: 24E-01314 Project Location: XTO Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 12 1FT (H244947-11)

BTEX 8021B

DILX GOZID	mg/	- Kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/16/2024	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

mg/kg

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 13 3FT (H244947-12)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/16/2024	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

Analyzed By: JH

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08/13/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024

mg/kg

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Sampling Date:

Project Location: XTO

Sample ID: BS 24 - 14 1FT (H244947-13)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	Ç:
Toluene*	< 0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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08/13/2024

Soil

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: Reported: 08/19/2024 Sampling Type:

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 15 1FT (H244947-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/15/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	218	109	200	4.96	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	231	115	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

mg/kg

Project Number: 24E-01314

Project Location: XTO

BTEX 8021B

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 16 1FT (H244947-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					

Analyzed By: JH

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

113 %

48.2-134

Surrogate: 1-Chlorooctane

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 17 1FT (H244947-16)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

mg/kg

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/13/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 18 1FT (H244947-17)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/13/2024

Reported: 08/19/2024 Sampling Type: Soil Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact

Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 01 0-1FT (H244947-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

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08/13/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 03 1-3FT (H244947-19)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 04 8FT (H244947-20)

mg/kg

BTEX 8021B

	91	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.00	100	2.00	7.46	
Toluene*	<0.050	0.050	08/16/2024	ND	1.92	96.2	2.00	6.08	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.00	99.8	2.00	5.08	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.95	99.2	6.00	5.01	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	102 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

mg/kg

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 19 3FT (H244947-21)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

mg/kg

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 20 1FT (H244947-22)

BTEX 8021B

•									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	6 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 21 1FT (H244947-23)

mg/kg

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 22 1FT (H244947-24)

mg/kg

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 23 1FT (H244947-25)

mg/kg

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

mg/kg

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 24 1FT (H244947-26)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Kune



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 25 1FT (H244947-27)

mg/kg

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	230	115	200	0.497	
DRO >C10-C28*	16.7	10.0	08/15/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Project Number: Sample Received By: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: BS 24 - 26 1FT (H244947-28)

BTEX 8021B	mg/	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	45.6	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	21.3	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49 1-14	8						

127 % Surrogate: 1-Chlorooctadecane 49.1-148

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Celeg D. Freene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024

mg/kg

Reported: 08/19/2024 Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

BTEX 8021B

Sampling Date: 08/14/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: WS 24 - 02 1-8FT (H244947-29)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Analyzed By: JH

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08/14/2024

Soil

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Sampling Date:

Sampling Type:

Project Location: XTO

Sample ID: WS 24 - 04 1-8FT (H244947-30)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	< 0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	96.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 %	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

BTEX 8021B

Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 05 1-3FT (H244947-31)

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 06 1-3FT (H244947-32)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500Cl-B	ma/	ka	Analyze	d Bv: AC					

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134 Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 07 1-3FT (H244947-33)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

108 %

49.1-148

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

BTEX 8021B

Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 08 1-3FT (H244947-34)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	230	115	200	0.497	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	233	117	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	86.2	% 48.2-13	4						

Analyzed By: JH

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Surrogate: 1-Chlorooctadecane



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 09 1-3FT (H244947-35)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	223	111	200	6.32	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	220	110	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 10 0-1FT (H244947-36)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	223	111	200	6.32	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	220	110	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	18						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 14 0-1FT (H244947-37)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	223	111	200	6.32	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	220	110	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	68.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

RTFY 8021R

Sample ID: WS 24 - 15 0-1FT (H244947-38)

B1EX 8021B	mg/	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	223	111	200	6.32	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	220	110	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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08/14/2024

Soil

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type:
Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition:

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

RTFY 8021R

Sample ID: WS 24 - 16 3-8FT (H244947-39)

ry True Value QC RPD Qualifie 2.00 0.793 2.00 0.854 2.00 1.48 6.00 1.73
2.000.8542.001.48
2.00 1.48
6.00 1.73
ry True Value QC RPD Qualifie
400 3.92
ry True Value QC RPD Qualifie
200 6.32
200 10.2
-

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 17 3-8FT (H244947-40)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	1.95	97.5	2.00	0.793	
Toluene*	<0.050	0.050	08/16/2024	ND	1.88	94.0	2.00	0.854	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.89	94.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.61	93.4	6.00	1.73	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/15/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/15/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date: 08/14/2024

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 11 0-1FT (H244947-41)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	QR-03
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	QR-03
Ethylbenzene*	< 0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	QR-03
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	QR-03
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	61.3	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	11.4	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Reported: 08/19/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/14/2024

Sampling Type: Soil

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

Sample ID: WS 24 - 12 0-1FT (H244947-42)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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08/14/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/15/2024 Sampling Date:

Reported: 08/19/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Tamara Oldaker

Project Location: XTO

Sample ID: WS 24 - 13 0-1FT (H244947-43)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.09	104	2.00	7.88	
Toluene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	7.21	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	105	2.00	6.72	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.55	109	6.00	6.41	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/16/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	171	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	87.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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

Celey D. Keene



Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



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

Company Name: 110 + 4 -	ottol		BILL TO	AN	ANALYSIS REQUEST	
Project Manager: Sally Calthar	alla Castan		P.O. #:			1
Address: 3/0 3	310 3 Royd Or.		Company: X70 Energ	85		
City: (a) 15 but	State:	NM Zip: 88220	5			_
Phone #: 575-36	36)-356, Fax#:		Address: 3104 Creene	Str		
Project#: 248-	314	Project Owner:	City: (22/552)			
Project Name: 6:5	Edd wit DE 9 3	Th	State: NM Zip: 8822	ò		_
Project Location:			Phone #: 432-66 -	-0571		_
Sampler Name: 6	wouthwalle ish					_
FOR LABUSE ONLY	- 1	MATRIX	PRESERV. SAMPLING	21		
	Sample ID	RS TER		8013		
7		ORAB OR CONTAINE COUNDWASTEWAT	HER : ID/BASE: E / COOL I	PH Chlo		
8	B524-01 1FT	V 5	18/8/80	_		1
l	B524-02 189			/		
	8524-03 FT			8:10		
cı	BS 24-05 3FT		8	8: 20		
S	BS 24 - 06 1 FT		8	8:25		
0	1824-07 [FI		8	8:30		
2	BS 24-08 1 FT		8	8:35		
Sox	-		*	8:40		
100	1	•		45 0		
PLEASE NOTE: Listolity and Damagi completion of the applicable service affiliates or successors arraing out	BS 29 - 11 PT and the properties and clearly exclusive remedy for any colored agent Cardinal's and Cardinal's heliable for incidental or or vice. In no event obtain Cardinal's the labels for incidental or or installed to the performance of services hereunder to or installed to the performance of services hereunder.	ELEASE NOTE: Listelly and Damager. Cardinate shalling and clients estudion remind for any column bring whether based in certacid or last, shall be finished to the amount plot by the client for the unlayer. All clients including those for negligibilities price, in one event shall Cardinate for resoluted and contraction of the applications service, in one event shall Cardinate for resoluted and contraction between the event shall cardinate for productions are interested by client, its subsidiaries of successions arising out of or initiated to the performance of services hierarchies by client, its subsidiaries and successions arising out of or initiated to the performance of services hierarchies by Cardinat, regarded so of whether sociol client is based upon any of the above stated reasons or otherwise.	pad by the chief for the analyses. All claims include phons loss of use or loss of profits incurred by clief the above stated reasons or otherwise.	ence and any other cause whatsoever	stall be deemed waved uniess made inviting and received by Cardinal within 30 days	ays after
Relinquished By:		Received By:	Right	Verbal Result: □ Yes □ No [Add'l Pho All Results are emailed. Please provide Email address: らくんし せんご 魚 リヒ汁	□ No Add'! Phone #: Please provide Email address: SCAT HAT @ (157+6X,CQ	Ш
Relinquished By:	Date:	Received By:		REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C	CHECKED BY:	Tumaround Time: Standard B Bacteria (only): Rush	Bacteria (only) Sample Condition ed Temp. ¹ C	
		1. CC	ZV The	Correction Factor 353°C - 0.00°C	Yes Yes Cornected Temp *C	

FORM-006 R 3 2 10/07/21



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

Company Name:	101101		BILL TO	ANALYS	ANALYSIS REQUEST
Project Manager:	Sally Casttal		P.O. #:		
Address: 310	3103 604 08:UP		Company: XTO E TERS	57	
City: Carlsbad	ad	State: NM Zip: 88220	Attn: A My EIRT h		
Phone #:575 - 361-	-361-256) Fax#:		Address: 3/04 Green	5, 51/	
Project #: 298-0134	1-01341	Project Owner:	City: Cx /5 526		
Project Name: 8:3 Edds	ID TIM USB3 CI	9354	State:WA Zip: 882	70	
Project Location:			132-661	-057)	
Sampler Name:	Wand wad leish		Fax #:		
FOR LABUSE ONLY		MATRIX	PRESERV. SAMPLING	2)	
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Sample I.D.	ORAB OR (C)OMP. CONTAINERS POUNDWATER ASTEWATER UIL	HER: ID/BASE: E/COOL HER:	STEX 80 1 th 801 Chlorid	
-	85-24-12 181	<	()	8:53 / /	
ته	8524-13 3FT		1 08/13/2	9:00	
13	131 11-1258		$\overline{}$	7:05	
14	85 24 -15 1FT			9:10	
S	3524-161FT			9.15	
91	BS 24-17 1FT			9:20	
17	BS 24-18 1F1			7:25	
X	W524-01 0-1	FT		10:00	
19	WS 27-03 1-3	8 61	4	10:05	
PLEASE NOTE: Liability and Da completion of the applicable so affiliates or successors airsing	mages. Cardina's lability and client's exclusive remei evoce. In no event shall Cardinal be liable for no out of or related to the performance of services	PLEASE NOTE: Labelly and Demages. Cardina's labelly and client's exclusive remedy for any claim arrang whether based in contract or for, shall be limited to the amount paid by the client for the amolyses. All claims including those for neglection of the applicable service. In no event shall Cardina's te liable for neglectial or consequential damages, including whose is interested interested interested in the event shall cardinal be liable for neglectial or consequential damages, including whose in interested interested interested in the amount paid to the event of the applicable of the performance of services hereunded by Cardinal, regardless of whether such claim is based upon any of the above stated reasons to otherwise.	sed to the amount paid by the client for the lanalyses. All claims, in business interruptions loss of use, or loss of profits incurred by sed upon any of the above stated reasons to otherwise.	analyses. A claims including those for negligence and any other cause whatoever shall be deemed as of profits incurred by client, this subscharkes. and or otherwise.	emed waved unless made it writing and received by Cardinal within 30 days after
Relinquished By: Laff (),		Time: 1858 Received By:	request	Verbal Result: □ Yes □ No Add'i Pho All Results are emailed. Please provide Email address: SСみ ナねるの しゃ	□ No Add'I Phone #: ase provide Email address: \$Casttaf@ eftex_Ca
Relinquished By:		eived By:		REMARKS:	, N
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °Q, Q; Cool Intact	CHECKED BY: (Initials)	Rusy Standard Bacteria (only) Sample Condition Rusy Standard Cooperated Temp C Thermometer ID #113 # UO Correction Factor 475°C	Condition Vest Ves
		-	•	10,11%	No No Corrected Temp. "C

FORM-006 R 3.2 10/07/21

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



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

Company Name: 110710X	Vertex		BILL TO		ANALYSIS REQUEST	REQUEST
Project Manager:	Sally restat		P.O. #:			
Address: 3103	W		Company: XTa			
City: Carls 5 at	State: N/A	Zip: 88 22 0	Attn: Ans Ruth			
Phone #: 575-361-	356 Fax#:		Address: 3104 Greene str	restr		
Project #: 24 E - 013/4			City: (215 bad			
Project Name: 4	Project Name: 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 1 OI 1 35 H	State: NM Zip:882	0.5		
Project Location:			Phone #: 432-661-	1-0571		
Sampler Name: W 5011	hosett wadleish					
Lab I.D.		MATRIX	PRESERV. SAMPLING	2/		
	Sample I.D.	ERS	1		801: 1:22	
された		(G)RAB OR # CONTAIN GROUNDW WASTEWA* SOIL OIL SLUDGE	OTHER ACID/BASE ICE / COOL OTHER DATE	BTEX	chlo	
000	8524-04 851	<	-	8:00 1		
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2 a	10			8:10		
يل	RS29-21 1FT			8:15		
94	3529-22 191			8.20		
25	8529-23 181			8.25		
26	8529-24 181			8.30		
27	18527-25 1FT			8:35		
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PLEASE NOTE: Labelity and Dain	Images Cardinal's lability and client's exclusive remedy for any claim arising wheth	8 FT Months arising whether based in contract or tort, shall be limited to the amount	ad to the amount paid by the client for the lanalyses. All claims incl	9:0 o	crause whatsoever shall be deemed waived unless	ed unless made in writing and received by Cardinal within 30 days after
affiliates or successors arsing	Compensor of the approximate service. In the rest is the Justice of each for proprietal or consequent countries who commission for the construction of the constructio	jardess of whether such claim is based upon any o	the above stated reasons or otherwise	WHEN I'VE DOWNSTRAMS AND		
Relinquished By:	he-Sils an	Received By:	000	Verbal Result:	No provide Emai	one #:
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Relinquished By:	Date:	Received By:	9	REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	le One) Observed Temp. °C Corrected Temp. °C	,	CHECKED BY: (Initials)	Turnaround Time: Standard Russ H 8 7 cool intact Ob	Bacteria (only) Sample Condition Observed Temp, *C	
	1.02	0 NO NO	28	OF ASS	中で、一口	Ves Ves
					_	No Corrected Temp, "C

FORM-006 R 3.2 10/07/21



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

Company Name:	102501											8/1	BILL TO					1	ANALYSIS REQUEST	ISY	SR	EQL	JES.	7								
Project Manager:		200							ō.	P.O. #:	"						\dashv	_		٦	\dashv			\dashv	4		\dashv			\perp		
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City: Carls	bad	State: Nm	Zip: 6	88	22	0			A	Attn:	Ans	_	Ruth																			
Phone #: 5 7 5	361 3561	Fax #:							A	Address: 3	:		104 green	20 512			_	_												_		
Project #: 2 48	-01314	Project Owner:					М		Ω	ty: C	3	City: Carls bad	AL.				_										_			_		
Project Name: 8	h.t	019 35#							St	State: NM	5		882	02			_										_			_		
Project Location:		1							P	Phone #: 4 3	# 4	3	2661	1450			_													_	_	
Sampler Name:	Wouth wad leish	eish							Fa	Fax #:							_								_		_			_		
Lab I.D.					Т		MATRIX	-×		PRE	PRESERV.	12	SAMPLING	ING	2)		D	5							_		_			_		
	Sample I.D.	Þ	R (C)OMP.	NERS	VATER	TER									80.		8013	Pile														
されたこ			(G)RAB OF	# CONTAIN	GROUNDV	WASTEWA	SOIL	OIL SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	BTEX		7 9 11	Chic														
30	WS 24-04	1-8						Н			-		08/19/5	7.03	_		\vdash				\vdash			\vdash	-		-					
CN	W524-05	1-3											1	9:10			-								-		-					
22	6524-04	1-3						Н				1		9:15											H					Н		
33	W527-07	1-3						-						9.20		-					\vdash				\vdash		-					
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PLEASE NOTE: Lubbley and Dan completion of the applicable set affiliates or successors arising o	w\$ 24 - 16 3 sages Cardinal's labeling and clients exclusion role in no event shall Cardinal be liable to or related to the performance of s.	is remaily for any cam arrang whether based in contract or lot, and be for a remaily for any cam arrang whether based in contract or lot, and be for for incontract consequents contracts contracts. Including without limitation, the incontract of the contract of whether such claim is barenced hereunder by Cardinal, legardless of whether such claim is barenced hereunder by Cardinal, legardless of whether such claim is barenced in the contract of	nages, in	contract cluding v	without a	mitation of the	Bushe asset up	Ne amou	of the a	loss of	and or or	ne ana iloss o	and to the amount paid by the clean for the analyses. All cleams included to the amount paid by the clean for the analyses. All cleams included the clean of the clean of the clean of the analyses of the analyse stated reasons of bitherwise.	suding trace for negligence and client its subsidianes	gence and		Cause	ey other cause whatsoever shall be deemed waveo unless made to	er shall be	deeme	d waive	unless	mage	5	fing and recer		ed by Cardinal	al within	130 days	after	L	
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Relinquished By:		Date: Time:		Received By:	d By								C	REMARKS:		1																
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 2 2 2 Corrected Temp. °C 2 2 2	(6)	6.	□ tp c s	Sample Condition Cool Intact No No No	mple Cond of Intact	ditio	5	∞	F 5	(Initials)	**	Rust 4 2 Copi inc. Thermometer 10 - 113- Correction Factor 6:55	Standa Copi Inta	Standard D	- "	tard Bacteria (only) Sample Condition	nly) Sam	ple Con		O Ves O Ves	₹ €	Corrector	Temp	ń						
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FORM-006 R 3.2 10/07/21

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

Observed Temp. °C

Sample Condition Cool Intact

CHECKED BY: (Initials)

198

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ved Temp. "C

Correction Factor 1.5°C

□ No □ No

ded Temp. "C

Time: Date: Time: 1258

Received By:

REMARKS

Scalltar @ vert exica

FORM-006 R 3.2 10/07/21

Relinquished By: wy w.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	letter	H		BILL TO	0			ANA	ANALYSIS REQUEST	DUEST	
Project Manager:	Salle Carttal			P.O. #:			\dashv	\dashv			
Address: 3163	Address: 3/03 805 & Drive			Company: XTO Energy	CARISH						_
city: Carlsbad	State: N M	Sp: 88	220	Attn: Any Euth	,						
Phone #: 575 3 6 1	3 56) Fax#:			Address: 3/04 67 88-517	57.00~ 512						
Project#: 248	w			City: CKP/5 522							
Project Name: &	Project Name: 813 Eath wait 01 9 35 H			State: // M Zip:	W Zib: 8,8550					_	
Project Location:				Phone #: 43 2 66 1 057	1 150 19						
Sampler Name: (What hadeish			Fax #:		1	0				
COR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	2	51				
Lab I.D.	Sample I.D.	B OR (C)OMP.	INDWATER EWATER	R BASE		BTEX 80	TPH 801	chlorites			
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40	13 8-8 41-425M		0	08/1	08/11/20 10:10	<		_	+	+	+
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		1				1	+	+			
		+				1	+	+	+	+	
PLEASE NOTE: Lability and Damages completion of the applicable service influence or successors arising out of	PLEASE NOTE: Labelly and Damaged, Cardinat's labelly and client's accusive remany for any care manage version based in contract or lot, shall be lented to be amount paid for lent client for the analyses. At claims, whoulding floors and completion of the applicable services in no event shall Cardinal be labely for recoderal or consequental damages, including without immation, business retirengbland, loss of use or related to the performance of services hereunder by Cardinal respirates or Whiteher such chains to successors areing old of or related to the performance of services hereunder by Cardinal respirates or Whiteher such chains to successors areing old of or related to the performance of services hereunder by Cardinal respirates or Whiteher such chains to successors areing old of or related to the performance of services hereunder by Cardinal respirates or Whiteher such chains to successors areing old of or related to the performance of services hereunder by Cardinal respirates on Whiteher such chains to successors are successors areing old of or related to the performance of services hereunder by Cardinal respirates or Whiteher such chains to be successful.	H based in conti mages, includi ardless of whe	ract of for, shall be limited to the am ng without limitation, business ril other such claim is based upon a	ount paid by the client for the lanalyses. As enruptions, loss of use, or loss of profits by of the above stated reasons or others	claims including those for re mourted by client, its subsidiar wise	perior and	other cause v	hatsoever shall	be deemed waved un	less made in writing and rec	any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after
Relinquished By:	Bater Ju	Recei	Received By:		Verbal Result: ☐ Yes ☐ No Add'! Pho	t:	No.		Add'I Phone #:	*	
	20.01	T		250		re emailed.	Please p	rovide Em	ail address:		

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Delivered By: (Circle One)	Relinquished By:	Relinquished By:	PLEASE NOTE: Lability and Damages: Card completion of the applicable service in his applicable service in his filliates or successors arising out of or re			-	_	41 65	E341.D.	OR LAB USE DALLY	Sampler Name: 6, 5,		Project Name: 8:3 €	Project #: 24 8 - 0		city: cat 15 bat	Address: 3163 164 2 07: VE	Project Manager: Sally Colttal	Company Name: Ue d	
Observed Temp. °C	Date: Time:	W. 1358	PLEASE NOTE: Leadily and Damages: Candina's student remedy for any claim arrang whether based in centract or the shall be finited by a mount paid by the claim for the landings and claims, including those for negligible completion of the applicable service. In the event shall Candinal by claim are consequented claimages, including without landstoon, business attentations, base of late or lates of profits incurred by claim. Its substicates are resources on an analysis of or eliteration the performance of services by Cardinal, regardless of whether auch claim is based upon any of the above stated reasons or otherwise.			w	6-0 21-6359	6529-11 0-1	Sample I.D.		List had leist		Eles wait 019 35#	13 14 Project Owner:	361 356) Fax#:	State: NA		coltta)	Lettex	
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Sample Condition		DOK	limited to the and on, business ent based upon ar			4		7	SOIL OIL SLUDGE	MATRIX										
3	-	rigner	ount paid by the o emuptions, loss by of the above	#		+			OTHER	PR	Fax #:	Phone #:	State:	City:	Addr	Attn:	Comp	P.O. #:		
CHECKE		2	sent for the land at use or loss of stated reasons			•		-	ICE / COOL OTHER	PRESERV.		e#: 432	NA	City: (a) 15 bad	ess: 3/6	Attn: Arzeuth	Company: X7	#	811	
CHECKED BY:	0	5	alyses. All claims of profits incurred or otherwise			4	,	14/180	DATE	SAM			210: 88220	bad	Address: 3/04 Greenst)	with	XTO CARISH		BILL TO	
The section of Times	REMARKS:	Verbal Result: □ Yes □ No Add'! Phone #: All Results are emailed. Please provide Email address: S C み さけんさ	including those for negliga by client its subsidiaries			9:55		9:40	TIME	SAMPLING		057)	220		ers1)		1099			
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Standard		d. Please prov	W other cause		Ш	9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	9-PH 8015	0										
Bacteria (only) Sample Condition		provide E	whatspever sh	+	Н	1			Chlorites			_							AN	
Sample Cond		Add'! Pho ide Email address: Oertex. Ca	shall be deemed waived unless	++	Н											_	_		ALYSIS	
tion		Phone #:																	ANALYSIS REQUEST	
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			and received by Cardinal	+							_	_	_							
			within																	
			30 days after																	

FORM-006 R 3 2 10/07/21



August 28, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 9 35H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 13:47.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



08/23/2024

Soil

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date:
Reported: 08/28/2024 Sampling Type:

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

A .. . l. d D. .. 311

Project Location: XTO

Sample ID: WS 24 - 02 0-10' (H245199-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	71.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Reported: 08/28/2024

Project Name: BIG EDDY UNIT DI 9 35H
Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/23/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 04 10.0' (H245199-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Reported: 08/28/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314
Project Location: XTO

Sampling Date: 08/23/2024

Sampling Type: Soil
Sampling Condition: Cool

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

Sample ID: WS 24 - 20 0-10' (H245199-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.4	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

BTEX 8021B

Sample ID: WS 24 - 17 0-10' (H245199-04)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/28/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Shalyn Rodriguez

Project Location: XTO

Sample ID: WS 24 - 18 0-10' (H245199-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/28/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Reported: 08/28/2024

BIG EDDY UNIT DI 9 35H

Project Name: BIG EDDY I Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/23/2024

Sampling Type: Soil

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

Sample ID: BS 24 - 27 10.0' (H245199-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

Analyzed By: JH

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08/23/2024

Soil

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date: Reported: 08/28/2024 Sampling Type:

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 24E-01314

Project Location: XTO

Sample ID: BS 24 - 28 10.0' (H245199-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 19 5.0' (H245199-08)

BTEX 8021B

DILX GOZID	11197	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	< 0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS 24 - 25 1.0' (H245199-09)

BTEX 8021B

	9/	9	7	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	217	109	200	2.85	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	196	98.2	200	0.734	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	Hade Observed Tomps 'C	1 # Observe	1 1	Rush Correction Factors		(Initials)	-	Cool Intact	Cool Intact	L W S &	1,5	Corrected Temp. "C A 'AC'		Sampler - UPS - Bus - Other
	1001	: 1140 861 001	100	10 0						,		Time:		
The second secon				REMARKS:	7	-	0			Received By:	Receiv			Relinquished By:
CC: Alvanik @ Verrex. C9	ca ,	HARY.	P Ve	Scartfor & vertay . ca	1	Z	B	AK	9	OK			Mille	White Man
Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	provide Em	Please	☐ Yee emailed.	/erbal Result:	-		^	Received By:		ed By	Receiv	he	· Committee of the comm	Relinquished By:
				client its subsidiaries.	of profits incurred by or otherwise	stated reasons	uptions, los of the above	d upon any	mitation, bu	g without in ther such of	s, includin	for incidental or consequental damage vices hereunder by Cardinal, regardle	completion of the applicable service. In no event shall Cardinal be liable for incidents or consequential damages, including without inhation, business infancing, loss of use, or loss of glottle incurred by client, its subsidiaries of the applicable service. In no event shall be performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	completion of the applicable servial services or successors arising or
all be deemed waived unless made in writing and received by Cardinal within 30 days after	whatsoever shall	any other cause	ence and an	uding those for negligi	mayses. All claims inc	client for the arts	E paid by the	ted to the amou		ct or ton, si	ed in contra	remedy for any claim arising whether based in contract or fort, shall be little	ages. Cardinal's lability and client's exclusive	PLEASE NOTE: Liability and Darris
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				1135							-	10.0	8524-27	6
				1035							-	0-10-	M524-18	
				1025							H	0-10	W524-17	
				1000							H	0-10	W524-20	W.
				0925	-						H	10.0	8524-04	
		7		0810	8.23.24	=			-		H	0-10-	N524-02	
	chloride	TPH 8015 D	BT EX 8021		Company: XTO Energy Attn: Any Ruth Address: 3104 Gran Str City: Carlsbad State: Na Zip: 88220 Phone #: 432-661-0571 Fax #: PRESERV. SAMPLING DATE TIME	OTHER: Company: XTO Address: 3104 City: Carlsbud State: Na Zip: PRESERV. PRESERV. STATE ACTORNAL PRESERV. PRESERV. STATE ACTORNAL PRESERV. PRESERV. DA	OTHER: Address Phone PRE: PRE:	SOIL MATRIX SLUDGE	WASTEWATER	# CONTAINERS GROUNDWATER PAGETHALER	1-7	State: N/M Zir ax #: Project Owner: 9 35 H		Project Manager: Sally Cact Address: 3103 Boyd Dr. City: Carlshad Phone #: 575. 361. 3561 Project #: 74 E - 01314 Project Name: B:3 Eddy Unit Project Location: Sampler Name: Andrew Ludy Project Body Lab 1.D. Sampl
ANALYSIS REQUEST	ANA				1 70	BILL							Vertex	Company Name:



September 03, 2024

SALLY CARTTAR

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 9 35H

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 10:35.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Reported: 09/03/2024

BIG EDDY UNIT DI 9 35H

Project Name: BIG EDDY U Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/29/2024

Sampling Type: Soil

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

Sample ID: BS24 - 02 10' (H245302-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

A I J D. ... 711

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS24 - 05 10' (H245302-02)

BTEX 8021B

DILX GOZID	11197	K9	Andryzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Reported: 09/03/2024

Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/29/2024

Sampling Type: Soil

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

Sample ID: BS24 - 29 1' (H245302-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Reported:

09/03/2024 BIG EDDY UNIT DI 9 35H

Project Name: Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shalyn Rodriguez

Sample ID: BS24 - 30 1' (H245302-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil
Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS24 - 31 1' (H245302-05)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keine



08/29/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date:

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: BS24 - 32 1' (H245302-06)

BTEX 8021B

DILX OUZID	ıııg,	ng .	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024

Reported: 09/03/2024
Project Name: BIG EDDY UNIT DI 9 35H

Project Number: 24E-01314

Project Location: XTO

Sampling Date: 08/29/2024

Sampling Type: Soil

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

Sample ID: BS24 - 33 3' (H245302-07)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
CDO CC C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
GRO C6-C10*	<10.0	10.0	00/30/2021						
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
					209				

Analyzed By: JH

 Surrogate: 1-Chlorooctadecane
 111 %
 49.1-148

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08/29/2024

Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date:

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Project Location: XTO

Sample ID: BS24 - 34 5' (H245302-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024

Reported: 09/03/2024

Project Name: BIG EDDY UNIT DI 9 35H Project Number: 24E-01314

Project Location: XTO Sampling Date: 08/29/2024

Sampling Type: Soil

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

Sample ID: BS24 - 35 10' (H245302-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: WS24 - 21 0-1' (H245302-10)

BTEX 8021B

	9/	9	7 7 = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Sample Received By: Project Number: 24E-01314 Shalyn Rodriguez

Project Location: XTO

Sample ID: WS24 - 22 1-3' (H245302-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

Sample ID: WS24 - 23 1-5' (H245302-12)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.336	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	209	105	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Project Location: XTO

Sample ID: WS24 - 24 5-10' (H245302-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO

RTFY 8021R

Sample ID: WS24 - 25 1-10' (H245302-14)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE SALLY CARTTAR 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 08/30/2024 Sampling Date: 08/29/2024

Reported: 09/03/2024 Sampling Type: Soil

Project Name: BIG EDDY UNIT DI 9 35H Sampling Condition: Cool & Intact
Project Number: 24E-01314 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO

RTFY 8021R

Sample ID: WS24 - 26 1-10' (H245302-15)

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2024	ND	2.10	105	2.00	7.71	
Toluene*	<0.050	0.050	08/30/2024	ND	2.13	106	2.00	11.0	
Ethylbenzene*	<0.050	0.050	08/30/2024	ND	2.39	119	2.00	12.8	
Total Xylenes*	<0.150	0.150	08/30/2024	ND	6.94	116	6.00	13.5	
Total BTEX	<0.300	0.300	08/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2024	ND	209	104	200	0.714	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	205	102	200	3.83	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

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

Observed Temp. °C

Sample Condition
Cool Intact

Pres 2-196

No No No

CHECKED BY: (Initials)

hermometer ID erro #140

Observed Temp. 1C

10.62

O No O No

Corrected Temp. "C

Received By

Sally Carttar (SCarttar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com)

REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 1140661001, Incident #: nAPP2335435491

ORM-006 R 3 2 10/07/21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name	Company Name: Vertex Resource Services (Direct Bill to X IO Energy, Inc.)	irect Bill to X IO Energy, II	nc.)	BILL	7 10				ANALYSI	ANALYSIS REQUEST	
Project Manager: Sally Carttar	er: Sally Carttar			P.O.#:			-				
Address: 3101 Boyd Drive	Boyd Drive			Company: XTO Energy, Inc.	O Energy, Inc.		_	_			
City: Carlsbad	State: NM	Zip: 88220		Attn: Amy Ruth	מ		(0)				
Phone #:	575.725.5001	Fax#:		Address: 3104 E. Greene St	E. Greene St		MR				
Project#: 24E-01314	01314	Project Owner: Amy Ruth	Ruth	City: Carlsbad			0/				
Project Name:	Project Name: Big Eddy Unit DI 9 35H			State: NM Zip:		88220		_			
Project Location:	n:			Phone #: 432-661-0571	661-0571						
Sampler Name: L. Pullman.	L. Pullman.			Fax #:			EX.	hlo			
FOR LAB USE DALY			MATRIX	PRESERV.	SAMPLING	G	-	_			
Lab I.D.		DMP.					:80151				
Haus 30	Sample I.D.	(G)RAB OR (C)ON # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER ACID/BASE ICE / COOL OTHER	DATE	TIME	TPHS				
	BS24-02 10'	1.4	×		08.29.24	8:55	XX	X			
Ju	BS24-05 10'	C 1	X		08.29.24	9:00	XX	X			
N	BS24-29 I'	C 1	X		08.29.24	8:30	XX	×			
בו	BS24-30 1"	1 3	N		08.29.24	8:35	XX	X			
n	BS24-31 1'	C 1	X		08.29.24	8:40	XX	X			
6	BS24-32 I'	C 1	X		08.29.24	8:45	X X	X			
7	BS24-33 3'	C 1	X		08.29.24	8:15	X	×			
0	BS24-34 5'	0 1	X		08.29.24	11:45	XX	×			
2	BS24-35 10'	C 1	X		08.29.24	9:05	XX	×			
ò	WS24-21 0-1	C 1	X		08.29.24	8:50	XX	×			10 WS24-21 0-1' C 1 X 08.29.24 8:50 X X X X

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ve	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	Direct Bill to XTO	Ener	gy, lr	10.)				t		B	BILL TO				>	NALYS	ANALYSIS REQUEST	UEST							
Project Manager: Sally Carttar	ally Carttar								σ.	P.O. #:							_									
Address: 3101 Boyd Drive	d Drive								C	duc	any: X	Company: XTO Energy, Inc.	nc.			_		_			_			_		
City: Carlsbad	State: NM	Zip: 88220							A	tn: A	Attn: Amy Ruth	uth			(0)									_		
Phone #:	575.725.5001	Fax#:							A	dre	ss: 31	Address: 3104 E. Greene	St		MI			_			_			_		_
Project#: 24E-01314		Project Owner: Amy Ruth	ner: /	my	Ruth				C	y: C	City: Carlsbad	ad			0/						_			_		
Project Name: Big Eddy Unit DI 9 35H	Eddy Unit DI 9 35H								St	State:		NM Zip:	88220	021	DR	le					_			_		
Project Location:									P	none	# 43	Phone #: 432-661-0571		(8	0/	oric					_			_		
Sampler Name: L. Pullman.	Pullman.								TI	Fax #:				EX	GR	Chl					_			_		
FOR LAB USE DALLY						×	MATRIX	×	1	PRE	PRESERV.	SAMPLING	LING	вт	D((_		_		_			_		
Lab I.D.	Sample I.D.		G)RAB OR (C)OMP	CONTAINERS	ROUNDWATER	ASTEWATER	OIL	LUDGE	THER	CID/BASE	CE / COOL THER	DATE	TIME	ı	TPH:8015											
	WS24-22 1-3"		0	- /		-	-		\vdash	-		08.29.24	8:20	×	×	X			t		-		1	+		+
5	WS24-23 1-5'		C	-			×					08.29.24	11:40	×	X	×	-	+	-	1	+		1	+		+
	WS24-245-10"		C	1			X	-	-			08.29.24	11:55	×	1	×	-	+	\dagger	+	+		1	+		+
	WS24-25 I-10"		С	-			×	\vdash	-		F	08.29.24	9:10	1	~	×	-	t	t	+	+		1	+		+
15	WS24-26 1-10'		C	-		\mp	×	+	+		+	08.29.24	9:15	×	/		+	+	+	+	+		1	-		+
								++++									$\perp \downarrow \downarrow \downarrow$									
PLEASE NOTE: Lookly and Demayor. Cystines stabilis and of completion of the applicable shorter. In or sent shall Caro affishing or successors sharing out at an easted to the performance.	marce of sen	wood for en care years eleiter staad in cristot or art, sell be imited to be encert just by the cent to the unifyees. All dates is exclude book of region or produced a consequence (caregoe, excusion) and of cent or care of portite portions in substances or produced by care of portite portions. The consequence (care in the portion of caregoe) and of cent or produced by careford or carefor	Special or or other control or other con	and here	p pure	100 miles	miled to	20 100 aug	A TA LE A	ADD VIEW OF	State of the State	analyses. All caures loss of profits incurred sons or attenuese	by darf is subsidiar		3	No I No	Ad Ad	Add'l Phone #:	#	on State	1 8	ed by Cardina	100	1	7	1
Relinquished By:		Date: Received By:	Rec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Received By:	d By		0	6	7		2	7	Verbal Result: Ves No PAGO Prinone #: All Results are emailed. Please provide Email address: Sally Cartfar (SCartfar@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 1140661001, Incident #: nAPP2335435491	re ema (SCarr	nailed. Plea	ase provide exresource	Email ad s.com), La Inc., Cost	idress: kin Pullma	n (Lpull	man@	nciden	nt #: n	APP	com	43549	2
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C	0	6	0.00	Sample Condition Cool Intact	le Co	ct	9		CHE	CHECKED BY:	Turnaround Time: Standard	Cool	Standard	3	y) Sample	Contribut								
		نٰو	3.5.6	C.		0 N O N	Ő q	No		-	d	D	Thermometer ID -#113- Correction Factor \$-5°C	tor 4	1 4	015	-	ON O ON		orrected	Corrected Temp. 'C	ď				

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

FORM-006 R 3.2 10/07/21

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<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 390400

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390400
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

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

Nature and Volume of Release	
faterial(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 5 BBL Recovered: 5 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 390400

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUEST	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
QUESTIONS	[0-141] Belefital Negation 0-141 (0-141-9-Belefital)
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial 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.
	niation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o sted 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 relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee smith@eyyonmobil.com

Date: 10/07/2024

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

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

QUESTIONS, Page 3

Action 390400

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390400
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
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 th	at apply or are indicated. This information must be provided t	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	olan approval with this submission	Yes
Attach a comprehensive report der	nonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	2100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	7551
GRO+DRO	(EPA SW-846 Method 8015M)	5113
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.8
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date wil	I the remediation commence	07/01/2024
On what date will (or did) th	e final sampling or liner inspection occur	04/26/2024
On what date will (or was) t	he remediation complete(d)	10/01/2024
What is the estimated surfa	ce area (in square feet) that will be reclaimed	6000
What is the estimated volur	ne (in cubic yards) that will be reclaimed	400
What is the estimated surfa	ce area (in square feet) that will be remediated	5137
What is the estimated volume (in cubic yards) that will be remediated		400
These estimated dates and measur	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

District I

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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**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, Page 4

Action 390400

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390400
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement

Name: Kailee Smith Title: Regulatory Analyst

Email: kailee.smith@exxonmobil.com

Date: 10/07/2024

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

Operator:

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

QUESTIONS, Page 5

Action 390400

QUESTIONS (continued)		
	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	

Midland, TX 79707 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The impacted area is immediately surrounding the pump jack.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	764
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	155
	lately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-42007 BIG EDDY UNIT DI9 #035H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed en which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 10/07/2024

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

QUESTIONS, Page 6

Action 390400

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390400
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	379093	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024	
What was the (estimated) number of samples that were to be gathered	25	
What was the sampling surface area in square feet	5000	

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

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CONDITIONS

Action 390400

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	390400
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created B	y Condition	Condition Date
scwells	Deferral approved. Deferral of BS24-07, WS24-11, and WS24-13 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	10/16/2024