

Incident Number: NRM2026231125

# **Release Assessment and Closure**

Zeus SWD Line Section 9, Township 24 South, Range 33 East County: Lea Vertex File Number: 24E-00851

Prepared for: Tap Rock Resources

Prepared by: Vertex Resource Services Inc.

**Date:** May 2024 Tap Rock Resources Zeus SWD Line

Incident Closure Zeus SWD Line Section 09, Township 24 South, Range 33 East County: Lea

Prepared for: **Tap Rock Resources** 200, 523 Park Point Drive Golden, Colorado 80401

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5/30/2024

Date

Tap Rock Resources	Release Assessment and Closure
Zeus SWD Line	May 2024

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Release Assessment and Closure May 2024

#### **1.0 Introduction**

Tap Rock Resources (Tap Rock) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on September 3, 2020, at Zeus SWD Line (hereafter referred to as the "site"). Tap Rock submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on September 11, 2020. Incident ID number NRM2026231125 was assigned to this incident. Vertex submitted a Remediation Plan to NMOCD and NMSLO and it was approved by both agencies on April 10, 2024

A closure request was submitted on June 10, 2022, due to organizational purposes with the report according to NMOCD. Vertex was retained by Tap Rock to diligently review the report and address the exceedances to closure criteria that remained in situ. It was determined additional excavation to 4 feet below ground surface (bgs) was required to achieve the reclamation closure criteria set forth in 19.15.29.13 *New Mexico Administrative Code* (NMAC) for areas where depth to groundwater is greater than 100 feet.

This report describes the remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of NMAC (New Mexico Oil Conservation Division, 2018) related to NMOCD have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain remediation approval from NMOCD for this release, with the understanding that restoration of the release site will take place immediately following remedial activities as per NMAC 19.15.29.13.

#### 2.0 Incident Description

The release occurred on September 3, 2020, due to an equipment failure stemming from a leak at a weld on an aboveground produced water poly transfer line. The incident was reported on September 11, 2020, and involved the release of approximately 20 barrels (bbl.) of produced water off-pad in the pasture. Approximately 5 bbl. of free fluid was removed during the 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 23 miles northwest of Jal, New Mexico (Google Inc., 2024). The legal location for the site is Section 09, Township 24 South and Range 33 East in Lea County, New Mexico on New Mexico State land. The location is typical of oil and gas transfer lines in the Permian Basin and is currently used for oil and gas transportation. The following sections describe in detail the release area of the site on or near the pipeline right-of-way (Figure 1). An aerial photograph and site schematic are presented on Figure 1.

The surrounding landscape is associated with Plains ecological descriptions with elevations ranging between 3,000 and 3,900 feet. The climate is semiarid with an average annual precipitation ranging between 10 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was characterized as shrub-dominated (R070BD003NM), mainly comprising sand sage and mesquite, although bluestem and dropseed grass species also minorly occurring. The surface geology at the site primarily comprises Qep – Eolian and Piedmont deposits, and is characterized as eolian sands and piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2024). The predominant

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soil texture on the site is loamy sandy and sandy soils (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Additional soil characteristics include a drainage class of well-drained and a low runoff class. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

#### 4.0 Closure Criteria Determination

The nearest groundwater data to the site is a New Mexico Office of the State Engineer (NMOSE) pod (POD C-04824) located approximately 0.22 miles northwest of the site (United States Geological Survey, 2024). The depth to groundwater was determined by drilling a borehole permitted by the NMOSE within a 0.5 mile radius of the site. The borehole was advanced to a depth of 105 feet bgs. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present after the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Due to the location of the release, and State and NMOCD regulations, the > 100 ft criteria of NMAC can be applied only soils 4 feet bgs or below; the < 50 ft criteria was applied to all soils less than 4 feet bgs. Documentation related to the exploratory borehole is included in Appendix F.

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 the Nearest Watercourse (National Wetlands Inventory) is located approximately 1.09 miles north 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.

**Tap Rock Resources** 

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	dinates: 32.222241, -103.573974	X: 634376	Y: 3565962
Speci	fic Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	>105	feet
1	Distance between release and nearest DTGW reference	1,161	feet
1	Distance between release and hearest DIGW reference	0.22	miles
Date of nearest DTGW reference measurement		Apri	l 25, 2024
2	Within 300 feet of any continuously flowing watercourse	F 744	fact
2	or any other significant watercourse	5,741	feet
2	Within 200 feet of any lakebed, sinkhole or playa lake	4.400	( )
3	(measured from the ordinary high-water mark)	4,192	feet
	Within 300 feet from an occupied residence, school,	27.704	<b>C</b>
4	hospital, institution or church	27,734	feet
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	5,016	feet
5	domestic or stock watering purposes, <b>or</b>		
	ii) Within 1000 feet of any fresh water well or spring	11,964	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	2,850	feet
,	Within the area overlying a subsurface mine	2,850 No	(Y/N)
8		NO	(1/1)
0	Distance between release and nearest registered mine	105,522	feet
			Critical
	Within an unstable area (Karst Map)	Low	High
		2011	Medium
			Low
9			
5			
	Distance between release and nearest unstable area	67,738	feet
	Within a 100-year Floodplain	500	year
10	Distance between release and nearest FEMA Zone A (100-	70,639	feet
	year Floodplain)	,	
11	Soil Type		BE
12	Ecological Classification	Loamv S	andy & Sandy
13	Geology		Qep
			<50'
			F1 100
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'

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Zeus SWD Line

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

Table 2. Closure Criteria for Soils to Remediation & Reclamation Standards							
Constituent Limit							
0.4 fact bas (10.15.20.12)	Chloride	600 mg/kg					
0-4 feet bgs (19.15.29.13)	TPH (GRO+DRO+MRO)	100 mg/kg					
	Chloride	20,000 mg/kg					
	TPH (GRO+DRO+MRO)	2,500 mg/kg					
DTGW > 100 feet (19.15.29.12)	GRO+DRO	1,000 mg/kg					
	BTEX	50 mg/kg					
	Benzene	10 mg/kg					

bgs – below ground surface

DTGW – depth to groundwater

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

BTEX – benzene, toluene, ethylbenzene and xylenes

#### 5.0 Remedial Actions Taken

Remediation efforts began on April 24, 2024, and were finalized on May 21, 2024. Vertex personnel supervised the excavation of impacted soils. Vertex personnel supervised the excavation up to the liner and stock-piled the previously backfilled soil off-site on a 30 mil liner in 100-yard piles. Each stockpile was then field-screened and samples submitted for laboratory analysis for possible contaminants. All of the previous backfilled material was analyzed to be below the strictest criteria and was then used in addition to new backfill for the excavation upon completion. The new backfill material that was sourced locally was also analyzed below closure criteria. Laboratory analyses for the backfill material are included in Table 4.

Field screening was completed to guide the excavation and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Titration (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The Daily Field Report documenting the final excavation before backfill is presented in Appendix C.

Notification that confirmatory samples were being collected was provided to NMOCD before each sampling event and are included in Appendix D. On May 2, 2024, a Vertex submitted a variance request for base samples to be collected at every 400 square feet to NMOCD. Confirmatory composite samples were collected from the base of the excavation in 400 square foot increments, as a variance request was approved (Appendix D). Wall samples were collected from the excavation at every 200 square feet. Fifty-four confirmation samples, including 28 base samples and 26 wall samples, were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to

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Envirotech 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). Final confirmatory laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below the closure criteria for the site.

#### 6.0 Closure Request

The release area was remediated by May 24, 2024, and will be backfilled with clean and uncontaminated earthen material sourced locally following closure approval from all appropriate regulatory agencies. Confirmatory samples and samples from all backfill material were analyzed by the laboratory and found to be below reclamation Closure Criteria for Soils Impacted by a Release locations with less than 50 feet depth to groundwater for the top four feet and greater than 100 feet depth groundwater for four feet bgs.

Vertex recommends no additional remediation action to address the impacted area at the site. Laboratory analyses of confirmation samples collected show confirmatory values below NMOCD reclamation closure criteria for areas where depth to groundwater is greater than 100 feet bgs. There are no anticipated risks to human, ecological, or hydrological receptors at the site. The site will be immediately reclaimed, contoured, and seeded with the appropriate NMSLO seed mix for loamy soils when the site achieves Remediation Closure Approval with NMOCD and NMSLO.

Vertex requests that this remediation closure report for the open incident be approved as all closure requirements outlined in Subsection E of 19.15.29.12 NMAC have been met. Tap Rock certifies that all information in this report and the appendices are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain Remediation Closure Approval.

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

#### 7.0 References

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#### 8.0 Limitations

This report has been prepared for the sole benefit of Tap Rock Resources. 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 Tap Rock Resources. Any use of this report by a third party, any reliance on decisions made based on it, or damages suffered as a result of using this report are the user's sole responsibility.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff by generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgment of Vertex based on the data collected during the assessment. Due to the nature of the 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**



# Zeus SWD Line Release, NMOCD Incident #NRM2026231125 **Initial Excavation Extent & Sample Location Map**

- CONSULTIN Released to Imaging: 7/
- <sup>∞</sup> Sidewall Sample

 $\diamond$ 

•

Pothole Sample

♦ Soil Borings

— Pipeline

**Composite Sample** 

**Background Sample** 

Groundwater Monitoring Well  $\otimes$ 

Location: T24S R33E S16 NWNE, Lea County, NM



Note: All locations approximate unless otherwiste noted



Date Created: 6/18/2022



### TABLES

**Client Name: Tap Rock Resources** 

Site Name: Zeus SWD Line

NMOCD Tracking #: NRM2026231125 Project #: 24E-00851

Lab Report(sX): E404283, E405024, E405058, E405076, E405075, E405122, E405156, E405106, E405134, E405180, E405106, E405122, E405134 E405156, E405218, E405180, E405276

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs													
9	ample Descrip	otion	Fi	eld Screeni	ng	Petroleum Hydrocarbons							
			ds			Vola	atile			Extractable	9		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)
BES24-01	4	05.07.2024	-	50	1,975	ND	ND	ND	ND	ND	ND	ND	4,350
BES24-02	4	05.10.2024	-	-	233	ND	ND	ND	ND	ND	ND	ND	291
BES24-03	4	05.10.2024	-	-	2369	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1,610
BES24-04	4	05.10.2024	-	-	2832 2832	ND	ND	ND	ND	ND	ND	ND	1,750 1,750
BES24-05 BES24-06	4	05.10.2024 05.10.2024	-	-	2629	ND	ND	ND	ND	ND	ND	ND	1,730
BES24-00 BES24-07	4	05.10.2024	-	-	4333	ND	ND	ND	ND	ND	ND	ND	1,990
BES24-07 BES24-08	4	05.10.2024	-	-	2889	ND	ND	ND	ND	ND	ND	ND	1,990
BES24-08	4	05.10.2024	-	-	6771	ND	ND	ND	ND	ND	ND	ND	3,970
BES24-10	4	05.10.2024	-	-	2745	ND	ND	ND	ND	ND	ND	ND	3,120
BES24-11	4	05.10.2024	-	-	3682	ND	ND	ND	ND	ND	ND	ND	5,860
BES24-12	4	05.13.2024	-	-	6452	ND	ND	ND	ND	ND	ND	ND	3,210
BES24-13	4	05.13.2024	-	-	6814	ND	ND	ND	ND	ND	ND	ND	4,910
BES24-14	4	05.13.2024	-	-	6237	ND	ND	ND	ND	ND	ND	ND	3,520
BES24-15	4	05.13.2024	-	-	6814	ND	ND	ND	ND	ND	ND	ND	4,420
BES24-16	4	05.13.2024	-	-	7247	ND	ND	ND	ND	ND	ND	ND	6,330
BES24-17	4	05.13.2024	-	-	5010	ND	ND	ND	ND	ND	ND	ND	3,440
BES24-18	4	05.13.2024	-	-	6,020	ND	ND	ND	ND	ND	ND	ND	4,280
BES24-19	4	05.13.2024	-	-	5400	ND	ND	ND	ND	ND	ND	ND	4,650
BES24-20	4	05.13.2024	-	-	1041	ND	ND	ND	ND	ND	ND	ND	2,340
BES24-21	4	05.13.2024	-	-	826	ND	ND	ND	ND	ND	ND	ND	3,220
BES24-22	4	05.13.2024	-	-	638	ND	ND	ND	ND	ND	ND	ND	863
BES24-23	4	05.13.2024	-	-	753	ND	ND	ND	ND	ND	ND	ND	1,790
BES24-24	4	05.13.2024	-	-	1691 3293	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	4,150
BES24-25	4	05.14.2024 05.14.2024	-	-	3295	ND ND	ND	ND ND	ND	ND ND	ND	ND	1,500 4,140
BES24-26 BES24-27	4	05.14.2024		52	4592	ND	ND	ND	ND	ND	ND	ND	3,060
BES24-27 BES24-28	4	05.14.2024	-	-	4448	ND	ND	ND	ND	ND	ND	ND	2,520
WES24-28	4	05.01.2024	-	37	405	ND	ND	ND	ND	ND	ND	ND	83
WES24-10	4	05.02.2024	-	-	530	ND	ND	ND	ND	ND	ND	ND	308
WES24-11	4	05.02.2024	-	-	630	ND	ND	ND	ND	ND	ND	ND	414
WES24-12	4	05.02.2024	-	-	565	ND	ND	ND	ND	ND	ND	ND	479
WES24-13	4	05.02.2024	-	-	582	ND	ND	ND	ND	ND	ND	ND	470
WES24-14	4	05.02.2024	-	-	638	ND	ND	ND	ND	ND	ND	ND	356
WES24-16	4	05.02.2024	-	27	328	ND	ND	ND	ND	ND	ND	ND	182
WES24-24	4	05.04.2024	-	-	400	ND	ND	ND	ND	ND	ND	ND	182
WES24-26	4	05.04.2024	-	-	618	ND	ND	ND	ND	ND	ND	ND	374
WES24-27	4	05.06.2024	-	-	478	ND	ND	ND	ND	ND	ND	ND	552
WES24-32	4	05.07.2024	-	-	430	ND	ND	ND	ND	ND	ND	ND	511
WES24-40	4	05.09.2024	-	-	185	ND	ND	ND	ND	ND	ND	ND	ND
WES24-41	4	05.09.2024	-	-	168	ND	ND	ND	ND	ND	ND	ND	ND
WES24-43	4	05.09.2024	-	-	210	ND	ND	ND	ND	ND	ND	ND	ND
WES24-44	4	05.14.2024	-	-	281	ND	ND	ND	ND	ND	ND	ND	242
WES24-45	4	05.14.2024	-	-	268	ND	ND	ND	ND	ND	ND	ND	577
WES24-46	4	05.14.2024	-	-	570	ND	ND	ND	ND	ND	ND	ND	358
WES24-48	4	05.14.2024	-	-	68	ND	ND	ND	ND	ND	ND	ND	ND
WES24-49	4	05.14.2024	-	-	43 125	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	ND 65
WES24-50	4	05.14.2024	-	-	125	ND	ND	ND	ND	ND	ND	ND	65



	Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs												
S	ample Descrip	otion	Fi	eld Screeni	ng			Petrole	um Hydrod	arbons			
			spu			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compoun (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)
WES24-51	4	05.14.2024	-	-	206	ND	ND	ND	ND	ND	ND	ND	ND
WES24-52	4	05.14.2024	-	-	238	ND	ND	ND	ND	ND	ND	ND	178
WES24-53	0-4	05.16.2024	-	-	205	ND	ND	ND	ND	ND	ND	ND	86
WES24-54	0-4	05.16.2024	-	-	175	ND	ND	ND	ND	ND	ND	ND	45
WES24-55	0-4	05.16.2024	-	-	155	ND	ND	ND	ND	ND	ND	ND	231
WES24-56	0-4	05.16.2024	-	-	243	ND	ND	ND	ND	ND	ND	ND	205
WES24-57	0-4	05.20.2024	-	-	304	ND	ND	ND	ND	ND	ND	ND	319

"-" indicates not analyzed/assessed Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



Client Name: Tap Rock Site Name: Zeus SWD Line NMOCD Tracking #: NRM2026231125 Project #: 24E-00851 Lab Report(sX): E405358, E404283, E405024

	Table 4. Backfill Sample Field Screen and Laboratory Results												
Sample Description Field Screening				Petroleum Hydrocarbons									
			s		Volatile Extra				Extractable	tractable			
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)
Stock Pile 1	2	04.25.24	0	23	462	ND	ND	ND	ND	ND	ND	ND	279
Stock Pile 2	2	04.25.24	0	-	250	ND	ND	ND	ND	ND	ND	ND	69
Stock Pile 3	2	04.25.24	0	-	290	ND	ND	ND	ND	ND	ND	ND	ND
Stock Pile 4	2	05.01.24	0	-	-	ND	ND	ND	ND	ND	ND	ND	27
Stock Pile 5	2	05.01.24	0	-	345	ND	ND	ND	ND	ND	ND	ND	ND
Stock Pile 6	2	05.01.24	0	43	250	ND	ND	ND	ND	ND	ND	ND	40
Stock Pile 7	2	05.01.24	-	-	-	ND	ND	ND	ND	ND	ND	ND	79
Stock Pile 8	2	05.01.24	-	-	-	ND	ND	ND	ND	ND	ND	ND	50
Backfill24-01	0	05.23.24	-	33	105	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-02	0	05.23.24	-	35	110	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-03	0	05.23.24	-	36	103	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-04	0	05.23.24	-	34	145	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-05	0	05.23.24	-	29	88	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-06	0	05.23.24	-	33	108	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-07	0	05.23.24	-	37	115	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-08	0	05.23.24	-	75	107	ND	ND	ND	ND	ND	ND	ND	ND
Backfill24-09	0	05.23.24	-	42	127	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed



#### TABLE 1.0

#### SOIL SCREENING RESULTS

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

#### TAP ROCK OPERATING LLC.

Sample ID	Sample Date	Sample Depth (ft. bgs)	PID Reading (PPM)
S-1	9/23/2020	2.0	0.2
S-2	9/23/2020	2.0	0.2
S-3	9/23/2020	2.5	0.2
S-4	9/23/2020	4.0	0.2
S-5	9/23/2020	4.7	0.3
S-6	9/23/2020	4.7	0.3
S-7	9/23/2020	4.7	0.2
S-8	9/23/2020	2.0	0.3
S-9	9/23/2020	2.0	0.3
S-10	9/23/2020	2.0	0.4
S-11	9/23/2020	2.0	0.2
S-12	9/23/2020	2.0	0.5
S-13	9/23/2020	2.0	0.2
S-14	9/23/2020	2.0	0.3
S-15	9/23/2020	2.0	0.2
S-16	9/23/2020	2.0	0.2
S-17	9/23/2020	2.0	0.2
S-18	9/23/2020	SW 2.0	0.5
S-19	9/23/2020	SW 2.0	0.4
S-20	9/23/2020	SW 2.0	0.4
S-21	9/23/2020	SW 2.0	0.5
S-22	9/23/2020	SW 2.0	0.5
S-23	9/23/2020	BG 1	0.3
S-24	9/23/2020	BG 2	0.3

Notes:

ft. bgs = Feet below ground surface
PID = Photoionization Detector
PPM = Parts per million
BG = Background
SW = Sidewall

#### TABLE 2.0

#### SOIL ANALYTICAL RESULTS ORGANIC COMPOUNDS

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

#### TAP ROCK OPERATING LLC.

Sample ID	Sample Date	Sample Depth (ft. bgs)	TPH (mg/kg)	Total BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD	Table I Soil Standar	d (mg/kg)	100	50	10			
S-1	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-2	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-3	9/23/2020	2.5	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-4	9/23/2020	4.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-5	9/23/2020	4.7	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-6	9/23/2020	4.7	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-7	9/23/2020	4.7	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-8	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-9	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-10	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-11	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-12	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-13	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-14	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-15	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-16	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-17	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-18	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-19	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-20	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-21	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-22	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-23	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
S-24	9/23/2020	2.0	< 50	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

#### Notes:

Standards for soil are taken from 19.15.29.12(C)(4) NMAC, Table I,

TPH = Total Petroleum Hydrocarbons (Gasoline Range Organics [GRO], Diesel Range Organics [DRO], Motor Oil Range Organics [MRO])

NMOCD = New Mexico Oil Conservation Divison

NMAC = New Mexico Administrative Code

< = Analytical result is less than the indicated laboratory reporting limit

BTEX = Benzene, Toluene, Ethlybenzene, and Total Xylenes

mg/kg = Milligrams per kilogram

ft. bgs. = Feet below ground surface

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD	10,000		
S-1	9/23/2020	2.0	2,490
S-2	9/23/2020	2.0	8,010
S-3	9/23/2020	2.5	11,000
S-4	9/23/2020	4.0	7,250
S-5	9/23/2020	4.7	5,160
S-6	9/23/2020	4.7	6,230
S-7	9/23/2020	4.7	6,060
S-8	9/23/2020	2.0	442
S-9	9/23/2020	2.0	5,810
S-10	9/23/2020	2.0	6,210
S-11	9/23/2020	2.0	6,570
S-12	9/23/2020	2.0	2,070
S-13	9/23/2020	2.0	174
S-14	9/23/2020	2.0	1,250
S-15	9/23/2020	2.0	4,540
S-16	9/23/2020	2.0	2,880
S-17	9/23/2020	2.0	4,450
S-18	9/23/2020	2.0	6,940
S-19	9/23/2020	2.0	6,980
S-20	9/23/2020	2.0	7,390
S-21	9/23/2020	2.0	407
S-22	9/23/2020	2.0	5,050
S-23	9/23/2020	2.0	4.82
S-24	9/23/2020	2.0	4.76
PH-001	10/26/2020	5.7	< 10.1
PH-002	10/26/2020	4.8	12.6
PH-003	10/26/2020	5.4	< 10.0
PH-004	10/26/2020	5.2	< 9.98
PH-005	10/26/2020	4.2	20.4
PH-006	10/26/2020	5.0	10.1
PH-007	10/26/2020	5.4	45.0
PH-008	10/26/2020	5.0	12.4
PH-009	10/26/2020	6.6	< 9.98

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD	10,000		
PH-010	10/26/2020	6.3	< 10.1
EPH-011	10/26/2020	6.5	10,400
EPH-012	10/26/2020	10.7	9,540
EPH-013	10/26/2020	6.5	7,600
EPH-014	10/26/2020	10.7	8,000
EPH-015	10/26/2020	5.3	11,700
EPH-016	10/26/2020	6.6	11,100
EPH-017	10/26/2020	5.7	9,220
EPH-018	10/26/2020	6.3	11,000
EPH-019	10/26/2020	5.2	11,200
EPH-020	10/26/2020	7.0	11,100
EPH-021	10/26/2020	5.7	11,100
EPH-022	10/26/2020	7.3	11,300
EPH-023	10/26/2020	6.1	9,320
EPH-024	10/26/2020	6.5	8,390
H Top Soil	11/18/2020	0.0	18,600
H2	11/18/2020	2.0	7,350
H4	11/18/2020	4.0	3,990
H6	11/18/2020	6.0	2,600
H8	11/18/2020	8.0	3,130
H10	11/18/2020	10.0	3,650
H12	11/18/2020	12.0	7,680
H14	11/18/2020	14.0	6,280
H16	11/18/2020	16.0	8,290
H18	11/18/2020	18.0	9,010
H20	11/18/2020	20.0	9,210
H22	11/18/2020	22.0	9,670
H24	11/18/2020	24.0	8,060
H26	11/18/2020	26.0	1,610
H28	11/18/2020	28.0	844
H30	11/18/2020	30.0	544
H32	11/18/2020	32.0	1,570
H34	11/18/2020	34.0	1,060

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD .	Table I Soil Standard	d (mg/kg)	10,000
SH Top Soil	11/18/2020	0.0	1,240
SH2	11/18/2020	2.0	173
SH4	11/18/2020	4.0	19.7
SH6	11/18/2020	6.0	36.2
SH8	11/18/2020	8.0	126
SH10	11/18/2020	10.0	137
SH12	11/18/2020	12.0	136
SH14	11/18/2020	14.0	248
SH16	11/18/2020	16.0	327
SH18	11/18/2020	18.0	271
SH20	11/18/2020	20.0	229
SH22	11/18/2020	22.0	174
SH24	11/18/2020	24.0	108
SH26	11/18/2020	26.0	89.1
SH28	11/18/2020	28.0	225
SH30	11/18/2020	30.0	237
TH Top Soil	11/18/2020	0.0	10,700
TH2	11/18/2020	2.0	27.7
TH4	11/18/2020	4.0	24.4
TH6	11/18/2020	6.0	25.5
TH8	11/18/2020	8.0	299
TH10	11/18/2020	10.0	7,150
TH12	11/18/2020	12.0	13,800
TH14	11/18/2020	14.0	8,590
TH16	11/18/2020	16.0	9,740
TH18	11/18/2020	18.0	9,790
TH20	11/18/2020	20.0	10,500
TH22	11/18/2020	22.0	9,470
TH24	11/18/2020	24.0	6,620
TH26	11/18/2020	26.0	7,800
TH28	11/18/2020	28.0	6,670
TH30	11/18/2020	30.0	5,500
WW Top Soil	11/18/2020	0.0	7,820

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD	Table I Soil Standard	d (mg/kg)	10,000
WW2	11/18/2020	2.0	11.3
WW4	11/18/2020	4.0	363
WW6	11/18/2020	6.0	501
WW8	11/18/2020	8.0	786
WW10	11/18/2020	10.0	255
WW12	11/18/2020	12.0	1,110
WW14	11/18/2020	14.0	785
WW16	11/18/2020	16.0	5,250
WW18	11/18/2020	18.0	8,660
WW20	11/18/2020	20.0	9,690
WW22	11/18/2020	22.0	9,340
WW24	11/18/2020	24.0	11,500
WW26	11/18/2020	26.0	5,990
WW28	11/18/2020	28.0	198
WW30	11/18/2020	30.0	704
WW32	11/18/2020	32.0	516
WW34	11/18/2020	34.0	336
WW36	11/18/2020	36.0	322
WW38	11/18/2020	38.0	198
WW40	11/18/2020	40.0	802
WW42	11/18/2020	42.0	159
WW44	11/18/2020	44.0	258
WW46	11/18/2020	46.0	179
WW48	11/18/2020	48.0	156
WW50	11/18/2020	50.0	199
WW52	11/18/2020	52.0	206
WW54	11/18/2020	54.0	151
WW55	11/18/2020	55.0	163
Hole 1 Top Soil	3/3/2021	0.0	< 5.02
Hole 1 SB-1	3/3/2021	2.0	< 4.99
Hole 1 SB-2	3/3/2021	4.0	< 4.96
Hole 1 SB-3	3/3/2021	6.0	17.8
Hole 1 SB-4	3/3/2021	8.0	44.4

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

#### TAP ROCK OPERATING LLC.

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD	Table I Soil Standard	d (mg/kg)	10,000
Hole 1 SB-5	3/3/2021	10.0	174
Hole 2 Top Soil	3/3/2021	0.0	9.88
Hole 2 SB-1	3/3/2021	2.0	< 5.04
Hole 2 SB-2	3/3/2021	4.0	< 5.00
Hole 2 SB-3	3/3/2021	6.0	8.16
Hole 2 SB-4	3/3/2021	8.0	13.0
Hole 2 SB-5	3/3/2021	10.0	1620
Hole 3 Top Soil	3/3/2021	0.0	26.6
Hole 3 SB-1	3/3/2021	2.0	7.35
Hole 3 SB-2	3/3/2021	4.0	11.4
Hole 3 SB-3	3/3/2021	6.0	59.0
Hole 3 SB-4	3/3/2021	8.0	120
Hole 3 SB-5	3/3/2021	10.0	398
Hole 4 Top Soil	3/3/2021	0.0	114
Hole 4 SB-1	3/3/2021	2.0	37.8
Hole 4 SB-2	3/3/2021	4.0	22.5
Hole 4 SB-3	3/3/2021	6.0	257
Hole 4 SB-3B	3/3/2021	7.0	346
Hole 4 SB-4	3/3/2021	8.0	662
Hole 4 SB-6	3/3/2021	10.0	750
Hole 5 Top Soil	3/3/2021	0.0	326
Hole 5 SB-1	3/3/2021	2.0	< 5.05
Hole 5 SB-2	3/3/2021	4.0	< 5.03
Hole 5 SB-3	3/3/2021	6.0	<4.96
Hole 5 SB-4	3/3/2021	8.0	11.0
Hole 5 SB-5	3/3/2021	10.0	77.2
Hole 6 Top Soil	3/3/2021	0.0	15.1
Hole 6 SB-1	3/3/2021	2.0	8.97
Hole 6 SB-2	3/3/2021	4.0	6.3
Hole 6 SB-3	3/3/2021	6.0	16.2
Hole 6 SB-4	3/3/2021	8.0	72.0
Hole 6 SB-5	3/3/2021	10.0	89.2

#### **Released to Imaging:** 7/11/2024 2:56:53 PM

#### SOIL ANALYTICAL RESULTS CHLORIDES

#### ZEUS SWD LINE OCD INCIDENT #NRM2026231125 LEA COUNTY, NEW MEXICO

#### TAP ROCK OPERATING LLC.

Sample ID	Sample Date	Sample Depth (ft. bgs)	Chlorides (mg/kg)
NMOCD Table I Soil Standard (mg/kg)		10,000	

Notes:

Standard for soil is taken from 19.15.29.12(C)(4) NMAC, Table I,

Depth to ground water 51 - 100 feet

BOLD = Result above closure criteria

NMOCD = New Mexico Oil Conservation Divison

NMAC = New Mexico Administrative Code

< = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

ft. bgs = Feet below ground surface

**APPENDIX A - NMOCD C-141 Report** 

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

State of New Mexico Energy Minerals and Natural Resources Department

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

)

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Incident ID	NRM2026231125
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party Tap Rock Operating LLC	OGRID 37243	
Contact Name Brad Morton	Contact Telephone (720) 460-3518	
Contact email bmorton@taprk.com	Incident # (assigned by OCD) NRM2026231125	
Contact mailing address 523 Park Point Dr #200, Golden, CO, 80401		

#### **Location of Release Source**

Latitude 32.224671

Longitude -103.574627

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Zeus SWD Line	Site Type Above Ground Transfer Line
Date Release Discovered 9/3/20	API# (if applicable)

Unit Letter	Section	Township	Range	County
0	9	24S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: \_

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Ves No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Equip	ment failure, leak at weld on above-ground pr	oduced water poly transfer line

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rage	4

#### Oil Conservation Division

Incident ID	NRM2026231125
District RP	
Facility ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

### **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\checkmark$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Title: Regulatory & EHS Manager
Date: 9/11/2020
Telephone: 720-360-4028
Date:

Received by OCD: 6/4/2024 3:34:34 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	NRM2026231125
District RP	
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# Site Assessment/Characterization

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?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🔽 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

Laboratory data including chain of custody

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

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eceived by OCD: 6/4/2	024 3:34:34 PM State of New Me	vico		Page 31 of 3
			Incident ID	NRM2026231125
age 4			District RP	
			Facility ID	
			Application ID	
public health or the enviro failed to adequately invest	are required to report and/or file certain r comment. The acceptance of a C-141 report tigate and remediate contamination that e of a C-141 report does not relieve the c	ort by the OCD does not rel pose a threat to groundwate	ieve the operator of liability sh er, surface water, human health	ould their operations have or the environment. In
Printed Name:	Brad Morton	Title:	Production Manage	er
Signature:		Date:		
email: bmorto	n@taprk.com	Telephone:	720.460.3518	
OCD Only				
Received by:		Date:		

Page 6

Incident I	D	NRM2026231125
District R	Р	
Facility II	)	
Applicatio	on ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Brad Morton	Title: Production Manager		
Signature:	Date:		
email:bmorton@taprk.com	Telephone: 720.460.3518		
OCD Only			
Received by:	Date:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by:	Date:		
Printed Name:	Title:		

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

National Wetlands Inventory



#### March 15, 2024

#### Wetlands

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

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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

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# National Wetlands Inventory



#### March 15, 2024

#### Wetlands

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

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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

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Miller Fabrication, LLC

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#### Received by OCD: 6/4/2024 3:34:34 PM Zeus SwD Line

Distance to Livestock Well: 0.95 miles (5,016 feet) away

# G-02308 Livestock Well

## Legend

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## Page 37 of 397

- C-02308 Livestock Well
- Distance to Livestock Well
  - Zeus SWD Release Area

Zeus SWD Release Area



Image © 2024 Airous

Tap Rock

2000 ft

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Distance to Nearest Municipality: Jal is 23.27 miles, (122,875 feet) away 

 Legend
 Page 39 of 397

 Distance to Municipality

 Nearest Municipality

 Zeus SWD Release Area

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**Google** Earth

Image © 2024 Airbus Image Landsat / Copernicus 121

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#### **U.S. Fish and Wildlife Service**

# National Wetlands Inventory



# March 15, 2024

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland
  - **Freshwater Pond**

Freshwater Emergent Wetland

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

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National Wetlands Inventory (NWI) This page was produced by the NWI mapper

# Subsurface Mine: 20 mi (105,522 feet) away



Aggregate, Stone etc.

BLM

NPS

 $\mathbb{N}^{2}$ 

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

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# Received by OCD: 6/4/2024 3:34:34 PM Zeus SwD Line

Distance to High Karst Potential: 12.8 miles, (67,738 feet) away

## Legend

- Page 42 of 397
- Distance to High Karst Potential
- HIGH
- Low

128

Medium

14

Zeus SWD Release Area \$

# Zeus SWD Release Area



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NEW MEXICO

8 mi

# Legend Page 43 of 397 Zegesives VN DCD: 6/6/2024 3:34:34 PM Distance to FEMA Zone A Distance to FEMA Zone A: 13.38 miles, (70,639 feet) away 4 Zeus SWD Release Area 0 Zone A 128 Ze 128 A N Google Earth

Image © 2024 Airbus

6 mi



United States Department of Agriculture

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

# Custom Soil Resource Report for Lea County, New Mexico

Tap Rock: Zeus SWD Line



# Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2\_053951).

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

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

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

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PU—Pyote and Maljamar fine sands	
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SR—Simona-Upton association	
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# How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

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

.

#### Custom Soil Resource Report

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

# Soil Map

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

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## Custom Soil Resource Report

MAP LEGEND		MAP INFORMATION	
Area of Interest (AOI)	Spoil Area	The soil surveys that comprise your AOI were mapped at 1:20,000.	
Area of Interest (AOI)	Stony Spot	,	
Soil Map Unit Polygons	Very Stony Spot     Very     Ve	Please rely on the bar scale on each map sheet for map measurements.	
Soil Map Unit Lines	🍿 Wet Spot	measurements.	
	△ Other	Source of Map: Natural Resources Conservation Service	
Soil Map Unit Points Special Point Features	Special Line Features	Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)	
Blowout	Water Features		
Borrow Pit	Streams and Canals	Maps from the Web Soil Survey are based on the Web Mercato projection, which preserves direction and shape but distorts	
Clay Spot	Transportation	distance and area. A projection that preserves area, such as the	
Closed Depression	Rails	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.	
Gravel Pit	Interstate Highways		
Gravelly Spot	US Routes	This product is generated from the USDA-NRCS certified data a of the version date(s) listed below.	
🙆 Landfill	Major Roads		
Lava Flow	Local Roads	Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023	
<i>n</i> .	Background		
Marsh or swamp	Aerial Photography	Soil map units are labeled (as space allows) for map scales	
Mine or Quarry		1:50,000 or larger.	
Miscellaneous Water		Date(s) aerial images were photographed: Feb 7, 2020—May	
Perennial Water		12, 2020	
Rock Outcrop		The orthophoto or other base map on which the soil lines were	
Saline Spot		compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor	
Sandy Spot		shifting of map unit boundaries may be evident.	
Severely Eroded Spot			
Sinkhole			
Slide or Slip			
🧭 Sodic Spot			

# Map Unit Legend (Tap Rock Zeus SWD Line)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	363.2	38.1%
ВН	Berino-Cacique association, hummocky	37.9	4.0%
JA	Jal association	18.8	2.0%
LP	Largo-Pajarito complex, rarely flooded	0.6	0.1%
MN	Ratliff-Wink fine sandy loams	120.1	12.6%
PU	Pyote and Maljamar fine sands	197.4	20.7%
RT	Reeves-Cottonwood association	0.3	0.0%
SE	Simona fine sandy loam, 0 to 3 percent slopes	69.4	7.3%
SR	Simona-Upton association	0.7	0.1%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	91.1	9.6%
WK	Wink loamy fine sand	53.0	5.6%
Totals for Area of Interest		952.8	100.0%

# Map Unit Descriptions (Tap Rock Zeus SWD Line)

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 classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called

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

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

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

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

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

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

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

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

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can

be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

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

## Lea County, New Mexico

## **BE—Berino-Cacique loamy fine sands association**

#### Map Unit Setting

National map unit symbol: dmpd Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Berino**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

#### **Typical profile**

A - 0 to 6 inches: loamy fine sand Btk - 6 to 60 inches: sandy clay loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### **Description of Cacique**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 12 inches: loamy fine sand Bt - 12 to 28 inches: sandy clay loam Bkm - 28 to 38 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R070BD004NM - Sandy Hydric soil rating: No

#### **Minor Components**

#### Maljamar

*Percent of map unit:* 6 percent *Ecological site:* R077CY028TX - Limy Upland 16-21" PZ *Hydric soil rating:* No

#### Palomas

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

## BH—Berino-Cacique association, hummocky

#### Map Unit Setting

National map unit symbol: dmpg Elevation: 3,000 to 4,400 feet Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Berino**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

#### **Typical profile**

A - 0 to 10 inches: fine sand Btk - 10 to 60 inches: sandy clay loam

#### Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c

*Hydrologic Soil Group:* B *Ecological site:* R070BD003NM - Loamy Sand *Hydric soil rating:* No

#### **Description of Cacique**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 7 inches: fine sand Bt - 7 to 28 inches: sandy clay loam Bkm - 28 to 38 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R070BD004NM - Sandy Hydric soil rating: No

#### **Minor Components**

#### Kermit

Percent of map unit: 4 percent Ecological site: R070BD005NM - Deep Sand Hydric soil rating: No

#### Maljamar

*Percent of map unit:* 3 percent *Ecological site:* R077CY028TX - Limy Upland 16-21" PZ *Hydric soil rating:* No

#### Palomas

Percent of map unit: 2 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

**Dune land** 

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

## JA—Jal association

#### **Map Unit Setting**

National map unit symbol: dmpt Elevation: 3,000 to 4,000 feet Mean annual precipitation: 10 to 16 inches Mean annual air temperature: 58 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Jal and similar soils: 55 percent Drake and similar soils: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Jal**

#### Setting

Landform: Playa rims Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Dip Down-slope shape: Convex Across-slope shape: Concave Parent material: Calcareous alluvium and/or calcareous lacustrine deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 12 inches: sandy loam Bk - 12 to 60 inches: loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

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

#### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R070BC030NM - Limy Hydric soil rating: No

#### **Description of Drake**

#### Setting

Landform: Playa dunes Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Concave, linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 9 inches: loamy fine sand AC - 9 to 30 inches: fine sandy loam C - 30 to 60 inches: sandy clay 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: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

#### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7c Hydrologic Soil Group: A Ecological site: R070BD004NM - Sandy Hydric soil rating: No

#### **Minor Components**

#### Midessa

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### Wink

Percent of map unit: 5 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Simona

Percent of map unit: 5 percent Ecological site: R070BD002NM - Shallow Sandy Hydric soil rating: No

## LP—Largo-Pajarito complex, rarely flooded

#### Map Unit Setting

National map unit symbol: dmq7 Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 200 days Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Largo and similar soils: 45 percent Pajarito and similar soils: 40 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Largo**

#### Setting

Landform: Alluvial fans, plains Landform position (two-dimensional): Backslope Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous loamy alluvium derived from sedimentary rock

#### **Typical profile**

A - 0 to 13 inches: loam AC - 13 to 30 inches: silty clay loam C - 30 to 60 inches: silty clay loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: High (about 10.6 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### **Description of Pajarito**

#### Setting

Landform: Plains, alluvial fans Landform position (two-dimensional): Backslope Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous sandy alluvium and/or mixed sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 16 inches: loamy fine sand Bw - 16 to 48 inches: fine sandy loam Bk - 48 to 60 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: 45 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.7 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7c Hydrologic Soil Group: A Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### **Minor Components**

#### Maljamar

Percent of map unit: 8 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Palomas

Percent of map unit: 7 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

### MN—Ratliff-Wink fine sandy loams

#### Map Unit Setting

National map unit symbol: dmqf Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Ratliff and similar soils: 45 percent Wink and similar soils: 40 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Ratliff**

#### Setting

Landform: Plains Landform position (three-dimensional): Dip Down-slope shape: Convex Across-slope shape: Convex Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 4 inches: fine sandy loam Bw - 4 to 22 inches: clay loam Bk - 22 to 60 inches: clay loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

#### Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6c Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### **Description of Wink**

#### Setting

Landform: Plains Landform position (three-dimensional): Dip Down-slope shape: Convex Across-slope shape: Convex Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 12 inches: fine sandy loam Bk - 12 to 23 inches: sandy loam BCk - 23 to 60 inches: 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: 30 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 4.7 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R070BD004NM - Sandy Hydric soil rating: No

#### **Minor Components**

#### Kermit

Percent of map unit: 6 percent Ecological site: R070BC022NM - Sandhills Hydric soil rating: No

#### Maljamar

Percent of map unit: 5 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Palomas

*Percent of map unit:* 4 percent *Ecological site:* R070BD003NM - Loamy Sand Hydric soil rating: No

## PU—Pyote and Maljamar fine sands

#### Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent *Maljamar and similar soils:* 44 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

#### **Description of Pyote**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 30 inches: fine sand Bt - 30 to 60 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: Negligible
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: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

*Hydrologic Soil Group:* A *Ecological site:* R070BD003NM - Loamy Sand *Hydric soil rating:* No

#### **Description of Maljamar**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Minor Components

#### Kermit

*Percent of map unit:* 10 percent *Ecological site:* R070BC022NM - Sandhills *Hydric soil rating:* No

## RT—Reeves-Cottonwood association

#### Map Unit Setting

National map unit symbol: dmqz Elevation: 3,500 to 4,100 feet Mean annual precipitation: 12 to 16 inches Mean annual air temperature: 58 to 60 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Reeves and similar soils: 70 percent Cottonwood and similar soils: 20 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Reeves**

#### Setting

Landform: Playa rims, playa slopes Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from gypsum

#### **Typical profile**

A - 0 to 12 inches: loam Bk - 12 to 16 inches: clay loam Bky - 16 to 60 inches: gypsiferous material

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to strongly saline (2.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

#### Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### **Description of Cottonwood**

#### Setting

Landform: Playa rims, playa slopes Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope Down-slope shape: Linear Across-slope shape: Linear Parent material: Mixed residuum weathered from gypsum

#### **Typical profile**

A - 0 to 8 inches: loam Cr - 8 to 60 inches: bedrock

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 3 to 12 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R070BB006NM - Gyp Upland Hydric soil rating: No

#### Minor Components

#### Arch

Percent of map unit: 5 percent Ecological site: R077CY035TX - Sandy 16-21" PZ Hydric soil rating: No

#### Portales

*Percent of map unit:* 3 percent *Ecological site:* R077CY028TX - Limy Upland 16-21" PZ *Hydric soil rating:* No

#### Mansker

Percent of map unit: 2 percent Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

## SE—Simona fine sandy loam, 0 to 3 percent slopes

#### Map Unit Setting

National map unit symbol: dmr2 Elevation: 3,000 to 4,200 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 58 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### Map Unit Composition

Simona and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Simona**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 8 inches: fine sandy loam Bk - 8 to 16 inches: gravelly fine sandy loam Bkm - 16 to 26 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 2.0 inches)

#### Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D

*Ecological site:* R070BD002NM - Shallow Sandy *Hydric soil rating:* No

#### **Minor Components**

#### Kimbrough

Percent of map unit: 8 percent Ecological site: R077CY037TX - Very Shallow 16-21" PZ Hydric soil rating: No

Lea

Percent of map unit: 7 percent Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

#### SR—Simona-Upton association

#### Map Unit Setting

National map unit symbol: dmr3 Elevation: 3,000 to 4,400 feet Mean annual precipitation: 10 to 16 inches Mean annual air temperature: 58 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Simona and similar soils: 50 percent Upton and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Simona**

#### Setting

Landform: Ridges Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 8 inches: gravelly fine sandy loam Bk - 8 to 16 inches: fine sandy loam Bkm - 16 to 26 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent Depth to restrictive feature: 7 to 20 inches to petrocalcic Drainage class: Well drained Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum content: 50 percent Gypsum, maximum content: 1 percent Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Sodium adsorption ratio, maximum: 2.0 Available water supply, 0 to 60 inches: Very low (about 1.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R070BD002NM - Shallow Sandy Hydric soil rating: No

#### **Description of Upton**

#### Setting

Landform: Ridges Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 8 inches: gravelly loam Bkm - 8 to 18 inches: cemented material BCk - 18 to 60 inches: very gravelly loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 0.9 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R070BC025NM - Shallow Hydric soil rating: No

#### **Minor Components**

#### Kimbrough

*Percent of map unit:* 6 percent *Ecological site:* R077CY037TX - Very Shallow 16-21" PZ *Hydric soil rating:* No

#### Stegall

*Percent of map unit:* 5 percent *Ecological site:* R077CY028TX - Limy Upland 16-21" PZ *Hydric soil rating:* No

#### Slaughter

*Percent of map unit:* 4 percent *Ecological site:* R077CY028TX - Limy Upland 16-21" PZ *Hydric soil rating:* No

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

#### **Map Unit Setting**

National map unit symbol: 2tw3c Elevation: 3,280 to 4,460 feet Mean annual precipitation: 10 to 16 inches Mean annual air temperature: 59 to 64 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

*Tonuco and similar soils:* 70 percent *Minor components:* 30 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

#### **Description of Tonuco**

#### Setting

Landform: Ridges, plains Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Sandy eolian deposits

#### **Typical profile**

A - 0 to 12 inches: loamy fine sand Bw - 12 to 17 inches: loamy sand Bkkm - 17 to 39 inches: cemented material

#### **Properties and qualities**

*Slope:* 0 to 3 percent *Depth to restrictive feature:* 12 to 20 inches to petrocalcic

Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: R077DY048TX - Shallow 12-17" PZ Hydric soil rating: No

#### Minor Components

#### Simona

Percent of map unit: 15 percent Landform: Ridges, plains Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Ecological site: R070BD002NM - Shallow Sandy Hydric soil rating: No

#### Berino

Percent of map unit: 10 percent Landform: Ridges, plains Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Cacique

Percent of map unit: 5 percent Landform: Ridges, plains Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Ecological site: R070BD004NM - Sandy Hydric soil rating: No

#### WK—Wink loamy fine sand

#### Map Unit Setting

National map unit symbol: dmrm Elevation: 3,000 to 3,400 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

#### Map Unit Composition

*Wink and similar soils:* 85 percent *Minor components:* 15 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

#### **Description of Wink**

#### Setting

Landform: Depressions Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip Down-slope shape: Concave Across-slope shape: Concave Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 12 inches: loamy fine sand Bk - 12 to 23 inches: sandy loam BCk - 23 to 60 inches: sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
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: 30 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 4.2 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e

*Hydrologic Soil Group:* A *Ecological site:* R070BD003NM - Loamy Sand *Hydric soil rating:* No

#### **Minor Components**

#### Berino

Percent of map unit: 5 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### Midessa

Percent of map unit: 4 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

#### Jal

Percent of map unit: 4 percent Ecological site: R070BC030NM - Limy Hydric soil rating: No

#### Cacique

Percent of map unit: 2 percent Ecological site: R070BD004NM - Sandy Hydric soil rating: No

# Soil Information for All Uses

## **Ecological Sites**

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

# All Ecological Sites — (Tap Rock Zeus SWD Line)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

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## Table—Ecological Sites by Map Unit Component (Tap Rock Zeus SWD Line)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	Berino (50%)	R070BD003NM — Loamy Sand	363.2	38.1%
		Cacique (40%)	R070BD004NM — Sandy		
		Maljamar (6%)	R077CY028TX — Limy Upland 16-21" PZ		
		Palomas (4%)	R070BD003NM — Loamy Sand		
BH	Berino-Cacique association,	Berino (50%)	R070BD003NM — Loamy Sand	37.9	4.0%
	hummocky	Cacique (40%)	R070BD004NM — Sandy		
		Kermit (4%)	R070BD005NM — Deep Sand		
		Maljamar (3%)	R077CY028TX — Limy Upland 16-21" PZ		
		Palomas (2%)	R070BD003NM — Loamy Sand		
		Dune land (1%)			
JA	Jal association	Jal (55%)	R070BC030NM — Limy	18.8	2.0%
		Drake (30%)	R070BD004NM — Sandy		
		Midessa (5%)	R070BC007NM — Loamy		
		Simona (5%)	R070BD002NM — Shallow Sandy		
		Wink (5%)	R070BD003NM — Loamy Sand		
LP	Largo-Pajarito complex, rarely flooded	Largo (45%)	R070BC007NM — Loamy	0.6	0.1%
		Pajarito (40%)	R070BD003NM — Loamy Sand		
		Maljamar (8%)	R070BD003NM — Loamy Sand		
		Palomas (7%)	R070BD003NM — Loamy Sand		
MN	Ratliff-Wink fine sandy loams	Ratliff (45%)	R070BC007NM — Loamy	120.1	12.6%
		Wink (40%)	R070BD004NM — Sandy		

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
		Kermit (6%)	R070BC022NM — Sandhills		
		Maljamar (5%)	R070BD003NM — Loamy Sand		
		Palomas (4%)	R070BD003NM — Loamy Sand		
PU	Pyote and Maljamar fine sands	Pyote (46%)	R070BD003NM — Loamy Sand	197.4	20.7%
		Maljamar (44%)	R070BD003NM — Loamy Sand		
		Kermit (10%)	R070BC022NM — Sandhills		
RT	Reeves-Cottonwood association	Reeves (70%)	R070BC007NM — Loamy	0.3	0.0%
		Cottonwood (20%)	R070BB006NM — Gyp Upland		
		Arch (5%)	R077CY035TX — Sandy 16-21" PZ		
		Portales (3%)	R077CY028TX — Limy Upland 16-21" PZ		
		Mansker (2%)	R077CY028TX — Limy Upland 16-21" PZ		
SE	Simona fine sandy loam, 0 to 3 percent slopes	Simona (85%)	R070BD002NM — Shallow Sandy	69.4	7.3%
		Kimbrough (8%)	R077CY037TX — Very Shallow 16-21" PZ		
		Lea (7%)	R077CY028TX — Limy Upland 16-21" PZ		
SR	Simona-Upton association	Simona (50%)	R070BD002NM — Shallow Sandy	0.7	0.1%
		Upton (35%)	R070BC025NM — Shallow		
		Kimbrough (6%)	R077CY037TX — Very Shallow 16-21" PZ		
		Stegall (5%)	R077CY028TX — Limy Upland 16-21" PZ		
		Slaughter (4%)	R077CY028TX — Limy Upland 16-21" PZ		
TF	Tonuco loamy fine sand, 0 to 3	Tonuco (70%)	R077DY048TX — Shallow 12-17" PZ	91.1	9.6%
	percent slopes	Simona (15%)	R070BD002NM — Shallow Sandy		

.

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#### Custom Soil Resource Report

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
		Berino (10%)	R070BD003NM — Loamy Sand		
		Cacique (5%)	R070BD004NM — Sandy		
WK	Wink loamy fine sand	Wink (85%)	R070BD003NM — Loamy Sand	53.0	5.6%
		Berino (5%)	R070BD003NM — Loamy Sand		
		Jal (4%)	R070BC030NM — Limy		
		Midessa (4%)	R070BC007NM — Loamy		
		Cacique (2%)	R070BD004NM — Sandy		
Totals for Area of In	terest			952.8	100.0%

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Regeived by QGD: 6/4/2024 3:34:34 PM

#### NMBGMR Interactive Resources Map



-103.430 32.244 Degrees

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**APPENDIX C – Daily Field Reports Photographs** 

## **Daily Site Visit Report**





Run on 5/15/2024 10:49 PM UTC

## **Daily Site Visit Report**



# **Site Photos** Viewing Direction: West Viewing Direction: South Excavation facing norther Excavation facing south Viewing Direction: East Excavation facing east

Run on 5/20/2024 11:12 PM UTC

## **APPENDIX D – Notifications**

From:	Velez, Nelson, EMNRD
To:	Chance Dixon
Cc:	Bratcher, Michael, EMNRD; Bill Ramsey; Michael Moffitt
Subject:	Re: [EXTERNAL] RE: Tap Rock - Zeus SWD Line
Date:	Thursday, May 2, 2024 8:33:15 AM
Attachments:	image001.png Outlook-pcdomdge.png

Good morning Chance,

Thanks for the correspondence. The sampling frequency increase from 200 to 400 square feet per one (1) 5-point composite sample is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Chance Dixon <cdixon@vertex.ca>
Sent: Thursday, May 2, 2024 8:19 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Bill Ramsey
<Bramsey@taprk.com>; Michael Moffitt <MMoffitt@vertex.ca>
Subject: RE: [EXTERNAL] RE: Tap Rock - Zeus SWD Line

Good morning all,

We have received the signed final bore logs for the proposed DTGW exploratory borehole on the Jackson 11 Battery that we discussed. We would like to use this data seeking approval for the 400 square-foot sampling variance that we requested in the Remediation Plan. The logs have been signed and submitted to NMOSE by Vision Resources, a licensed driller that was subcontracted through Vertex. The pod number is

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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

Page 92:0f 397 QUESTIONS

Action 339949

QUESTIONS

Operator: C	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	339949
2	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nRM2026231125	
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Approved	

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to conduct confirmation sampling. Wyatt Wadleigh can be reached at 832-392-4807.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	339949
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/2/2024

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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

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QUESTIONS

Action 339950

Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 339950 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nRM2026231125	
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Approved	

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.		
What is the sampling surface area in square feet	8,000	
What is the estimated number of samples that will be gathered	70	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Vertex will be on site to conduct confirmation sampling. Wyatt Wadleigh can be reached at 832-392-4807.	
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972	

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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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	339950
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/2/2024

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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

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QUESTIONS

Action 339952

QUESTIONS Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 339952 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

Location of Release Source	
Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

Sampling Event General Information	۱
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Please answer all the questions in this group.		
What is the sampling surface area in square feet	8,000	
What is the estimated number of samples that will be gathered	70	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/10/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Vertex will be on site to conduct confirmation sampling. Wyatt Wadleigh can be reached at 832-392-4807.	
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972	

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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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	339952
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/2/2024

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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

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QUESTIONS

Action 342489

Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number Golden, CO 80401 342489 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.		
What is the sampling surface area in square feet	10,000	
What is the estimated number of samples that will be gathered	50	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If there are any questions to concerns, please call 575-988-1472.	
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972	

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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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342489
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/9/2024

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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

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QUESTIONS

Action 342496

Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number Golden, CO 80401 342496 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If there are any questions to concerns, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342496
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created Condition Condition By Date 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 5/9/2024 vertex1 remediation closure samples not being accepted.

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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

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QUESTIONS

Action 342497

QUESTIONS Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number Golden, CO 80401 342497 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

Location of Release Source	
Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

Sampling Event General Informatio	n
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Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If there are any questions to concerns, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342497
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/9/2024

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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

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Action 342499

QUESTIONS Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number Golden, CO 80401 342499 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If there are any questions to concerns, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342499
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/9/2024

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

District III

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

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

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QUESTIONS

Action 342502

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342502
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If there are any questions to concerns, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	342502
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created Condition Condition By Date 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 5/9/2024 vertex1 remediation closure samples not being accepted.

CONDITIONS

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

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Action 344972

QUESTIONS

Operator: 0	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344972
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#) nRM2026231125	
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If you have any questions, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972
District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

District III

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

District IV 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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344972
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/16/2024

Action 344972

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

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

District III

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

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

523 Park Point Drive

Golden, CO 80401

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

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Action 344977

QUESTIONS OGRID: TAP ROCK OPERATING, LLC 372043

Action Number 344977 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS Proroquisitos

Operator:

r rerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

## Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/21/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If you have any questions, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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

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

District III

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

District IV 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

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344977
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		Condition Date
vertex1	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.	5/16/2024

Action 344977

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

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

District III

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

District IV 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

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Action 344979

QUESTIONS

Operator: C	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344979
4	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

## Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/22/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If you have any questions, please call 575-988-1472.
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972

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

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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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344979
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	Condition	Condition Date
vertex1	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.	5/16/2024

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Action 344979

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

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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

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Action 344980

QUESTIONS

Operator: 0	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344980
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

## Sampling Event General Information

Please answer all the questions in this group.			
What is the sampling surface area in square feet	2,000		
What is the estimated number of samples that will be gathered	10		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/23/2024		
Time sampling will commence	08:00 AM		
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If you have any questions, please call 575-988-1472.		
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972		

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

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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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344980
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	Condition	Condition Date
vertex1	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.	5/16/2024

Action 344980

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

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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

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Action 344982

QUESTIONS

Operator: C	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive A	Action Number:
Golden, CO 80401	344982
Α	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2026231125
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Approved

#### Location of Release Source

Site Name	ZEUS SWD LINE
Date Release Discovered	09/03/2020
Surface Owner	State

## Sampling Event General Information

Please answer all the questions in this group.		
What is the sampling surface area in square feet	2,000	
What is the estimated number of samples that will be gathered	10	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/24/2024	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Vertex will be on site to collect confirmation samples. If you have any questions, please call 575-988-1472.	
Please provide any information necessary for navigation to sampling site	32.222118, -103.573972	

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

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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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	344982
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By	Condition	Condition Date
vertex1	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.	5/16/2024

Action 344982

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





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E404283

Job Number: 24015-0001

Received: 4/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/2/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/2/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E404283 Date Received: 4/29/2024 10:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/29/2024 10:30:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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#### Page 122 of 397 **Sample Summary** Vertex Resource Services Inc. Project Name: Zeus SWD Line **Reported:** 3101 Boyd Drive Project Number: 24015-0001 Carlsbad NM, 88220 05/02/24 15:12 Project Manager: Chance Dixon

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Stockpile #1 2.0'	E404283-01A Soil	04/24/24	04/29/24	Glass Jar, 2 oz.
Stockpile #2 2.0'	E404283-02A Soil	04/25/24	04/29/24	Glass Jar, 2 oz.
Stockpile #3 2.0'	E404283-03A Soil	04/25/24	04/29/24	Glass Jar, 2 oz.



	Da	imple D	ลเล						
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Lin	e					
3101 Boyd Drive	Project Numbe	r: 240	24015-0001		24015-0001				Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon				5/2/2024 3:12:31PM		
	Sto	ckpile #1 2.	0'						
		E404283-01							
		Reporting							
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	BA		Batch: 2418020		
Benzene	ND	0.0250		1	04/30/24	05/01/24			
Ethylbenzene	ND	0.0250		1	04/30/24	05/01/24			
Toluene	ND	0.0250		1	04/30/24	05/01/24			
o-Xylene	ND	0.0250		1	04/30/24	05/01/24			
o,m-Xylene	ND	0.0500		1	04/30/24	05/01/24			
Fotal Xylenes	ND	0.0250		1	04/30/24	05/01/24			
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130		04/30/24	05/01/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2418020		
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/30/24	05/01/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130		04/30/24	05/01/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КМ		Batch: 2418017		
Diesel Range Organics (C10-C28)	ND	25.0		1	04/29/24	04/29/24			
Dil Range Organics (C28-C36)	ND	50.0		1	04/29/24	04/29/24			
Surrogate: n-Nonane		114 %	50-200		04/29/24	04/29/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2418038		
Chloride	279	20.0		1	04/30/24	04/30/24			

# Sample Data



	58	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Number	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/2/2024 3:12:31PM
	Sto	ckpile #2 2.0	D'			
	l	E404283-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: BA		Batch: 2418020
Benzene	ND	0.0250	1	04/30/24	05/01/24	
Ethylbenzene	ND	0.0250	1	04/30/24	05/01/24	
Toluene	ND	0.0250	1	04/30/24	05/01/24	
o-Xylene	ND	0.0250	1	04/30/24	05/01/24	
o,m-Xylene	ND	0.0500	1	04/30/24	05/01/24	
Total Xylenes	ND	0.0250	1	04/30/24	05/01/24	
Surrogate: 4-Bromochlorobenzene-PID	!	95.7 %	70-130	04/30/24	05/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2418020
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/24	05/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	04/30/24	05/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2418017
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29/24	04/29/24	
Dil Range Organics (C28-C36)	ND	50.0	1	04/29/24	04/29/24	
Surrogate: n-Nonane		114 %	50-200	04/29/24	04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2418038
Chloride	69.0	20.0	1	04/30/24	04/30/24	



## Sample Data

	Si	ample D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/2/2024 3:12:31PM
	Sto	ockpile #3 2.	0'			
		E404283-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepa	ared Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	Analyst: BA		Batch: 2418020
Benzene	ND	0.0250	1	04/30	0/24 05/01/24	
Ethylbenzene	ND	0.0250	1	04/30	0/24 05/01/24	
Foluene	ND	0.0250	1	04/30	0/24 05/01/24	
p-Xylene	ND	0.0250	1	04/30	0/24 05/01/24	
o,m-Xylene	ND	0.0500	1	04/30	0/24 05/01/24	
Fotal Xylenes	ND	0.0250	1	04/30	0/24 05/01/24	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	04/30	0/24 05/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: BA		Batch: 2418020
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30	0/24 05/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	04/30	0/24 05/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	Analyst: KM		Batch: 2418017
Diesel Range Organics (C10-C28)	ND	25.0	1	04/29	0/24 04/29/24	
Dil Range Organics (C28-C36)	ND	50.0	1	04/29	0/24 04/29/24	
Surrogate: n-Nonane		114 %	50-200	04/29	0/24 04/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	Analyst: IY		Batch: 2418038
Chloride	ND	20.0	1	04/30	0/24 04/30/24	



# QC Summary Data

		<b>X</b> U N		ar j Dave	•				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		Zeus SWD Line 4015-0001					Reported:
Carlsbad NM, 88220		Project Manager:	C	Chance Dixon					5/2/2024 3:12:31PM
		Volatile O	rganics	by EPA 802	1B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418020-BLK1)							Prepared: 0	4/30/24 A	nalyzed: 05/01/24
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			
LCS (2418020-BS1)							Prepared: 0	4/30/24 A	analyzed: 05/01/24
Benzene	4.81	0.0250	5.00		96.2	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.0	70-130			
Toluene	4.82	0.0250	5.00		96.4	70-130			
o-Xylene	4.79	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			
Matrix Spike (2418020-MS1)				Source: l	E404283-	03	Prepared: 0	4/30/24 A	analyzed: 05/01/24
Benzene	4.41	0.0250	5.00	ND	88.3	54-133			
Ethylbenzene	4.31	0.0250	5.00	ND	86.3	61-133			
Toluene	4.42	0.0250	5.00	ND	88.4	61-130			
o-Xylene	4.38	0.0250	5.00	ND	87.5	63-131			
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			
Matrix Spike Dup (2418020-MSD1)				Source: l	E404283-	03	Prepared: 0	4/30/24 A	nalyzed: 05/01/24
Benzene	4.91	0.0250	5.00	ND	98.2	54-133	10.7	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133	10.5	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	10.5	20	
. Valana	4.88	0.0250	5.00	ND	97.5	63-131	10.8	20	
o-Xylene									
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131	10.3	20	
	9.79 14.7	0.0500 0.0250	10.0 15.0	ND ND	97.9 97.8	63-131 63-131	10.3 10.5	20 20	



# **QC Summary Data**

		QC D	umm	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	eus SWD Line 4015-0001 hance Dixon					<b>Reported:</b> 5/2/2024 3:12:31PM
	Nor	nhalogenated (	Organics	by EPA 801	5D - GI	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418020-BLK1)							Prepared: 0	4/30/24 A	analyzed: 05/01/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			
LCS (2418020-BS2)							Prepared: 0	4/30/24 A	analyzed: 05/01/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			
Matrix Spike (2418020-MS2)				Source: E404283-03			Prepared: 0	4/30/24 A	analyzed: 05/01/24
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			
Matrix Spike Dup (2418020-MSD2)				Source: E	404283-	03	Prepared: 0	4/30/24 A	nalyzed: 05/01/24
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.1	70-130	10.6	20	



# **QC Summary Data**

		QC DI	u	ial y Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		Zeus SWD Line 24015-0001 Chance Dixon					<b>Reported:</b> 5/2/2024 3:12:31PM
	Nonh	alogenated Org	anics b	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2418017-BLK1)							Prepared: 0	4/29/24 A	analyzed: 04/29/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			
LCS (2418017-BS1)							Prepared: 0	4/29/24 A	analyzed: 04/29/24
Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	55.0		50.0		110	50-200			
Matrix Spike (2418017-MS1)				Source: E	404266-	02	Prepared: 0	4/29/24 A	analyzed: 04/29/24
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	51.8		50.0		104	50-200			
Matrix Spike Dup (2418017-MSD1)				Source: E	404266-	02	Prepared: 0	4/29/24 A	analyzed: 04/29/24
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.169	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



# **QC Summary Data**

				J					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line					Reported:
3101 Boyd Drive		Project Number:	2	4015-0001					•
Carlsbad NM, 88220		Project Manager:	C	Chance Dixon					5/2/2024 3:12:31PM
		Anions	by EPA	300.0/9056A					Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418038-BLK1)							Prepared: 04	4/30/24 A	analyzed: 04/30/24
Chloride	ND	20.0							
LCS (2418038-BS1)							Prepared: 04	4/30/24 A	analyzed: 04/30/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2418038-MS1)				Source: I	E <b>404287-</b> (	01	Prepared: 04	4/30/24 A	analyzed: 04/30/24
Chloride	690	20.0	250	442	99.2	80-120			
Matrix Spike Dup (2418038-MSD1)				Source: I	E <b>404287-</b> (	01	Prepared: 04	4/30/24 A	analyzed: 04/30/24
Chloride	713	20.0	250	442	108	80-120	3.25	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



V	ertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3	101 Boyd Drive	Project Number:	24015-0001	Reported:
C	arlsbad NM, 88220	Project Manager:	Chance Dixon	05/02/24 15:12

ND	Analyte NOT DETECTED at or above the reporting limit	
----	--	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: Verte- (B:IL to to Reck)         Project Name: Zeus Stud Line       Company:       Op Rock       Lab W0#       Job Num         Project Manager:       Address:       City, State, Zip:       Phone:       City, State, Zip:       Phone:       Phone:       Email:       Number       Number<	is and Method		EPA Program SDWA CWA RCRA Compliance Y or N PWSID # Remarks
Project Manager:	is and Method		SDWA CWA RCRA Compliance Y or N PWSID #
Address:       Phone:       Phone:       Analysis         City, State, Zip:       Phone:       Email:       Miscellaneous:       Stock pile #1 2.01       Stock pile #1 2.01       Stock pile #1 2.01       Stock pile #1 2.01       I			SDWA CWA RCRA Compliance Y or N PWSID #
City, State, Zip:         Phone:       Email:         Email:       Miscellaneous:         Time Sample Information         Time Sampled       Date Sampled         Matrix       No. of Containers         Sampled       Date Sampled         Matrix       No. of Containers         Sample ID       Date Sampled         14:00       4-24-24         5.01       1         5.02       1         14:00       4-25-24         1       1         5.02       2.0 <sup>-1</sup> 14:10       4.25-24         1       1         5.02       1         14:10       4.25-24         1       1         14:10       1         14:10       1         14:10       1         14:10       1         14:10       1         14:10       1         14:10       1         14:10       1         14:10       1			SDWA CWA RCRA Compliance Y or N PWSID #
Phone:       Email:       Miscellaneous:       Sample Information       Time Sampled     Date Sampled     Matrix     No. of Containers       Mos of Sampled     Sample Information       Image: Sampled     Matrix     No. of Containers     Sample ID       Image: Sampled     Matrix     No. of Containers     Sample ID       Image: Sampled     Matrix     No. of Containers     Sample ID       Image: Sampled     Matrix     Stockgale     #1     Z.O'     I       Image: Sampled     Matrix     Stockgale     #1     Z.O'     I       Image: Sampled     Matrix     Stockgale     #1     Z.O'     I       Image: Sampled     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Sample ID     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Image: Sample ID     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Image: Sample ID     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Image: Image: Sample ID     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Image: Image: Sample ID     Image: Sample ID     Image: Sample ID     Image: Sample ID       Image: Image: Image: Sample ID     Image: Sample	BGDOC - NM TCEQ 1005 - TX RCRA 8 Metals		Compliance Y or N PWSID #
Email:         Sample Information         Time Sampled Date Sampled Matrix       No. of Containers       Sample ID       Email:         ITime Sampled Date Sampled Matrix       No. of Containers       Sample ID       Email:       Open approximation         1       No. of Containers       Sample ID       Email: Lab Number       Number of An All         1/4:00       4-24-24       5.       1       5400 (Apple #1]       2.0'       1       7       7         1/4:00       4-25-24       1       1       5400 (Apple #1]       2.0'       2       1       1       7	N         BGDOC - NM           Freq 1005 - TX         TCEQ 1005 - TX           RCRA 8 Metals         RCRA 8 Metals		PWSID #
Sample Information         Time Sampled       Date Sampled       Matrix       Mo. of Containers       Sample ID       But signature Sample ID       But signature Sample ID       I ab State       Number Sample ID       I ab State       Number Sample ID       I ab State       Number Sample ID       I ab State       Number Sample ID       Number Sample	B6DOC - NM TCEQ 1005 - TX RCRA 8 Metals		PWSID #
14:00 4-24-24 So, 1 1 Stockpile #1 2.0' 1 + +++ +++++++++++++++++++++++++++++	7 BGDOC - NN 7CEQ 1005 - 1 RCRA 8 Met		Remarks
4:00 4-24-24 So, 1 1 Stockpile #1 2.0' 1 + +++ +++++++++++++++++++++++++++++	86D0C		Remarks
14:00 4-24-24 So, 1 Stockpile #1 2.0 1 + ++ 1 2.0 1 + ++ 1 2.0 1 + ++ 1 2.0 1 + ++ 1 2.0 1 + ++ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
4:10 4-25-24 1 1 Stockpile #2 2.0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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dditional Instructions: CC: cdixon@verfex.ca on results			
(field sampler), attest to repair and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is constructed.	nsidered fraud and m	ay be grounds for	legal action.
elinquished by: <u>Convertee</u> elinquished by: (Signature) <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>Date</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIAL</b> <b>URENTIA</b>	Complete an and the star		
and dy: (signature) [Time 126/24 / 0:27 [Received by: (signature)] [Date 4/26/24 / 1027			nust be received on ice the day they are yg temp above 0 but less than 6C on
Pinnyished by Signature) Date Time Received by (Signature) Date Time	subsequent davr		se Only
	Received on ic		•
elinguished by: (Signature) Date Time Received by: (Signature) Date Time			
A.M. 4.26.24 2300 alia 4/29/24 10:30	T1	T2	Т3
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	AVG Temp °C_	<u> </u>	
ample Matrix: S - Soli) Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic,	;, ag - amber glass	s, v - VOA	
lote: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at th pplicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.	the client expense.	The report for the	he analysis of the above samples is
	$\sim$ n		x at a ak
	CII		rotech

**Chain of Custody** 

Page l of l

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	Vertex Resource Services Inc. Da	ate Received:	04/29/24 10	:30	Work Order ID: E404283
Phone:	(575) 748-0176 Da	ate Logged In:	04/29/24 10	:52	Logged In By: Alexa Michaels
Email:		ue Date:	05/03/24 17	:00 (4 day TAT)	
Chain of	f Custody (COC)				
1. Does t	the sample ID match the COC?		Yes		
2. Does t	the number of samples per sampling site location match	the COC	Yes		
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes	_	
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the	e field,	Yes		Comments/Resolution
Sampla'	i.e, 15 minute hold time, are not included in this disussion.				
-	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes		Project manager was not listd on the C
	· •		105		by client.
Sample   7 Was a	sample cooler received?		Yes		
	was cooler received in good condition?		Yes		
-	he sample(s) received intact, i.e., not broken?				
	e custody/security seals present?		Yes		
	s, were custody/security seals intact?		No		
-	• •	(0) 000	NA		
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample tem	nperature: <u>4°</u>	<u>C</u>		
Sample	<u>Container</u>				
14. Are a	aqueous VOC samples present?		No		
15. Are V	VOC samples collected in VOA Vials?		NA		
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA		
17. Was	a trip blank (TB) included for VOC analyses?		NA		
18. Are 1	non-VOC samples collected in the correct containers?		Yes		
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes		
Field La					
	e field sample labels filled out with the minimum inform.	ation:	Ver		
	Sample ID? Date/Time Collected?		Yes		
	Collectors name?		Yes No		
<u>Sample</u>	Preservation_		0		
	the COC or field labels indicate the samples were prese	erved?	No		
22. Are s	sample(s) correctly preserved?		NA		
	o filteration required and/or requested for dissolved meta	ıls?	No		
<u>Multip</u> h	ase Sample Matrix				
	the sample have more than one phase, i.e., multiphase?		No		
	s, does the COC specify which phase(s) is to be analyzed		NA		
Subcont	ract Laboratory				
	samples required to get sent to a subcontract laboratory?		No		
	a subcontract laboratory specified by the client and if so			Subcontract Lab	b: NA
	· · ·		~		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405024

Job Number: 24015-0001

Received: 5/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/8/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405024 Date Received: 5/3/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/3/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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## Sample Summary

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		Sample Sum	mai y		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0001		
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/08/24 10:32
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Stockpile #4 2.0'	E405024-01A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
Stockpile #5 2.0'	E405024-02A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
Stockpile #6 2.0'	E405024-03A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
Stockpile #7 2.0'	E405024-04A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
Stockpile #8 2.0'	E405024-05A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VS24 01 4.0'	E405024-06A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
WS24 02 4.0'	E405024-07A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
WS24 03 4.0'	E405024-08A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VS24 04 4.0'	E405024-09A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
WS24 05 4.0'	E405024-10A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
WS24 06 4.0'	E405024-11A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VS24 07 4.0'	E405024-12A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
VS24 08 4.0'	E405024-13A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.



	56	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 2401	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/8/2024 10:32:56AN
	Sto	ckpile #4 2.0	0'			
	-	E405024-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2418117
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
p-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.7 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM			Batch: 2418122
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		104 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2418129
Chloride	27.1	20.0	1	05/03/24	05/05/24	

# Sample Data



	Di	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/8/2024 10:32:56AM
	Sto	ockpile #5 2.	0'			
		E405024-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2418117
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
p-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM			Batch: 2418122
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		108 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2418129
Chloride	ND	20.0	1	05/03/24	05/05/24	



## Sample Data

	50	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/8/2024 10:32:56AM
	Sto	ockpile #6 2.	0'			
	-	E405024-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2418117
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
p-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Fotal Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/k		mg/kg	Ana	lyst: KM		Batch: 2418122
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		106 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2418129
Chloride	40.0	20.0	1	05/03/24	05/04/24	



	Di	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/8/2024 10:32:56AM
	Sto	ockpile #7 2.	0'			
		E405024-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2418117
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
p-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Fotal Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM			Batch: 2418122
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		109 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2418129
Chloride	78.6	20.0	1	05/03/24	05/05/24	



56	ample D	ala			
Project Name:	Zeu	s SWD Line			
Project Numbe	er: 240	15-0001			Reported:
Project Manag	er: Cha	nce Dixon			5/8/2024 10:32:56AM
Sto	ockpile #8 2.	0'			
-	E405024-05				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2418117
ND	0.0250	1	05/03/24	05/03/24	
ND	0.0250	1	05/03/24	05/03/24	
ND	0.0250	1	05/03/24	05/03/24	
ND	0.0250	1	05/03/24	05/03/24	
ND	0.0500	1	05/03/24	05/03/24	
ND	0.0250	1	05/03/24	05/03/24	
	93.5 %	70-130	05/03/24	05/03/24	
mg/kg	mg/kg	Analyst: BA			Batch: 2418117
ND	20.0	1	05/03/24	05/03/24	
	99.6 %	70-130	05/03/24	05/03/24	
mg/kg	mg/kg	mg/kg Analyst: KM			Batch: 2418122
ND	25.0	1	05/03/24	05/03/24	
ND	50.0	1	05/03/24	05/03/24	
	108 %	50-200	05/03/24	05/03/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2418129
	Project Name: Project Numbe Project Manag Sto Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         Zeus           Project Number:         2401           Project Manager:         Char           Stockpile #8 2.4         E405024-05           E405024-05         E405024-05           Result         Limit           mg/kg         mg/kg           MD         0.0250           ND         20.0           99.6 %         mg/kg           Mg/kg         mg/kg           ND         25.0           ND         50.0	Project Number: $24015-0001$ Chance Dixon         Stockpile #8 2.0'         E405024-05         E405024-05         E405024-05         E405024-05         E405024-05         E405024-05         E405024-05         E405024-05         E405024-05         Result       Limit       Dilution         mg/kg       mg/kg       Analy         ND       0.0250       1         MD       0.0250       1         MD       20.0       1         MD       20.0       1         MD       20.0       1         MD       25.0       1         ND       50.0       1         ND       50.0       1         ND       50.0       1         ND       50.200	Vertical Variability of the second	I class SWD Line         Project Name:       24015-0001         Project Manager:       Chance Dixon         Stockpile #8 2.0'         E405024-05         Besotekpile #8 2.0'         E405024-05         Beporting         Result       Dilution       Prepared       Analyzed         MD       0.0250       1       05/03/24       05/03/24         ND       0.0250       1       05/03/24       05/03/24         MD       20.0       1       05/03/24       05/03/24       05/03/24 <th< td=""></th<>



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	5-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/8/2024 10:32:56AM
	W	/S24 07 4.0'				
	]	E405024-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	vst: BA		Batch: 2418117
Benzene	ND	0.0250	1	05/03/24	05/04/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/04/24	
Toluene	ND	0.0250	1	05/03/24	05/04/24	
o-Xylene	ND	0.0250	1	05/03/24	05/04/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/04/24	
Fotal Xylenes	ND	0.0250	1	05/03/24	05/04/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2418117
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	05/03/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: KM			Batch: 2418122
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/04/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/04/24	
Surrogate: n-Nonane		119 %	50-200	05/03/24	05/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	vst: IY		Batch: 2418129
Chloride	83.1	20.0	1	05/03/24	05/05/24	



# QC Summary Data

	Due is at Nous	7						
								Reported:
	Project Manager:	C	hance Dixon					5/8/2024 10:32:56AM
	Volatile O	rganics	by EPA 802	1B				Analyst: BA
	Reporting	Spike	Source		Rec		RPD	
Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/03/24 A	nalyzed: 05/03/24
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.34		8.00		91.8	70-130			
						Prepared: 0	5/03/24 A	nalyzed: 05/03/24
4.44	0.0250	5.00		88.8	70-130			
4.81	0.0250	5.00		96.2	70-130			
4.79	0.0250	5.00		95.8	70-130			
4.89	0.0250	5.00		97.9	70-130			
9.83	0.0500	10.0		98.3	70-130			
14.7	0.0250	15.0		98.2	70-130			
7.39		8.00		92.3	70-130			
			Source: 1	E405024-	03	Prepared: 0	5/03/24 A	nalyzed: 05/03/24
4.47	0.0250	5.00	ND	89.4	54-133			
4.87	0.0250	5.00	ND	97.4	61-133			
4.84	0.0250	5.00	ND	96.7	61-130			
4.95	0.0250	5.00	ND	99.0	63-131			
9.95	0.0500	10.0	ND	99.5	63-131			
14.9	0.0250	15.0	ND	99.4	63-131			
7.42		8.00		92.8	70-130			
			Source:	E <b>405024</b> -	03	Prepared: 0	5/03/24 A	nalyzed: 05/03/24
4.46	0.0250	5.00	ND	89.1	54-133	0.356	20	
4.88	0.0250	5.00	ND	97.6	61-133	0.219	20	
4.83	0.0250	5.00	ND	96.7	61-130	0.0217	20	
4.96	0.0250	5.00	ND	99.1	63-131	0.111	20	
9.96	0.0500	10.0	ND	99.6	63-131	0.0894	20	
14.9	0.0250	15.0	ND	99.5	63-131	0.0966	20	
	mg/kg ND ND ND ND ND ND 7.34 4.44 4.81 4.79 4.89 9.83 14.7 7.39 9.83 14.7 7.39 4.47 4.84 4.95 9.95 14.99 9.95 14.9 7.42 4.46 4.88 4.83 4.96 9.96	Result mg/kg         Reporting Limit mg/kg           ND         0.0250           7.34	Project Number:         24           Project Number:         24           Project Manager:         C           Volatile Organics         1           Result         Reporting mg/kg         Spike Level mg/kg           ND         0.0250           Solo         5.00           4.44         0.0250           Solo         5.00           4.81         0.0250           9.83         0.0500           9.83         0.0500           14.7         0.0250           7.39         8.00           4.47         0.0250           9.95         0.0500           10.0         14.9           0.0250         5.00           4.84         0.0250 <td>Project Number:         24015-0001 Chance Dixon           Volatile Organics by EPA 802           Result         Spike Limit         Source Result           mg/kg         mg/kg         mg/kg           ND         0.0250           7.34         8.00           4.44         0.0250           4.83         0.0500           4.84         0.0250           7.39         8.00           Kar         Source:           4.47         0.0250           4.47         0.0250           4.47         0.0250           4.83</td> <td>Angene         24015-0001           Project Namber:         24015-0001           Project Manager:         Chance Dixon           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec           MD         0.0250         mg/kg         mg/kg         %           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         91.8           4.44         0.0250         Source         88.8           4.81         0.0250         96.2           7.34         8.00         91.8           4.83         0.0250         5.00         98.3           4.81         0.0250         5.00         98.3           4.83         0.0250         5.00         98.2           7.39         8.00         92.3           Source: E405024-           4.47         0.0250         5.00         ND         97.4           4.8</td> <td>Arroy of the Number:         24015-0001           Project Nanager:         Chance Dixon           Volatile Organics by EPA 8021B           Result         Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec Kesult         Rec Limits           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         seat         seat         seat           A444         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           4.43         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           7.39</td> <td>ND         Spike         Source         Rec         Limits         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %           ND         0.0250         mg/kg         mg/kg         %         %         %           ND         0.0250         ND         0.0250         ND         0.0250         ND         %         <t< td=""><td>ND         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         %</td></t<></td>	Project Number:         24015-0001 Chance Dixon           Volatile Organics by EPA 802           Result         Spike Limit         Source Result           mg/kg         mg/kg         mg/kg           ND         0.0250           7.34         8.00           4.44         0.0250           4.83         0.0500           4.84         0.0250           7.39         8.00           Kar         Source:           4.47         0.0250           4.47         0.0250           4.47         0.0250           4.83	Angene         24015-0001           Project Namber:         24015-0001           Project Manager:         Chance Dixon           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec           MD         0.0250         mg/kg         mg/kg         %           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         0.0250           ND         0.0250         ND         91.8           4.44         0.0250         Source         88.8           4.81         0.0250         96.2           7.34         8.00         91.8           4.83         0.0250         5.00         98.3           4.81         0.0250         5.00         98.3           4.83         0.0250         5.00         98.2           7.39         8.00         92.3           Source: E405024-           4.47         0.0250         5.00         ND         97.4           4.8	Arroy of the Number:         24015-0001           Project Nanager:         Chance Dixon           Volatile Organics by EPA 8021B           Result         Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec Kesult         Rec Limits           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         seat         seat         seat           A444         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           4.43         0.0250         5.00         seat         seat           4.44         0.0250         5.00         seat         seat           7.39	ND         Spike         Source         Rec         Limits         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %           ND         0.0250         mg/kg         mg/kg         %         %         %           ND         0.0250         ND         0.0250         ND         0.0250         ND         % <t< td=""><td>ND         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         %</td></t<>	ND         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         %



# **QC Summary Data**

QC D	umm	ary Data					
5	2	24015-0001					<b>Reported:</b> 5/8/2024 10:32:56AM
, ,			5D - G	RO			Analyst: BA
	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
			70	70	70	70	Notes
					Prepared: 0	5/03/24 A	analyzed: 05/03/24
20.0							
	8.00		99.8	70-130			
					Prepared: 0	5/03/24 A	analyzed: 05/03/24
20.0	50.0		102	70-130			
	8.00		104	70-130			
		Source: E405024-03			Prepared: 05/03/24 Analyzed: 05/03/24		
20.0	50.0	ND	98.2	70-130			
	8.00		101	70-130			
		Source: E405024-03			Prepared: 0	5/03/24 A	analyzed: 05/03/24
20.0	50.0	ND	99.7	70-130	1.47	20	
	8.00		102	70-130			
	Project Name: Project Number: Project Manager: Nonhalogenated ( Reporting Limit mg/kg 20.0 20.0 20.0	Project Name: 2 Project Number: 2 Project Manager: 2 Nonhalogenated Organics Reporting Limit Level mg/kg mg/kg 20.0 8.00 20.0 50.0 8.00 20.0 50.0 8.00 20.0 50.0	Project Name: Zeus SWD Line Project Number: 24015-0001 Project Manager: Chance Dixon Nonhalogenated Organics by EPA 801: Reporting Spike Source Limit Level Result mg/kg mg/kg mg/kg 20.0 8.00 20.0 50.0 8.00 20.0 50.0 ND 8.00 20.0 50.0 ND 8.00	Project Number:       24015-0001         Project Manager:       Chance Dixon         Nonhalogenated Organics by EPA 8015D - G         Reporting       Spike         Limit       Level         Result       Rec         mg/kg       mg/kg         20.0       8.00         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         20.0       50.0         ND       98.2         20.0       50.0         ND       99.7	Project Name:         Zeus SWD Line           Project Number:         24015-0001           Project Manager:         Chance Dixon           Nonhalogenated Organics by EPA 8015D - GRO           Reporting Limit         Spike Level         Source Result mg/kg         Rec %         Rec %           20.0         50.0         102         70-130           20.0         50.0         102         70-130           20.0         50.0         104         70-130           20.0         50.0         104         70-130           20.0         50.0         ND         98.2         70-130           20.0         50.0         ND         99.7         70-130	Project Name:         Zeus SWD Line           Project Number:         24015-0001           Project Manager:         Chance Dixon           Nonhalogenated Organics by EPA 8015D - GRO           Reporting Limit         Spike Level         Source Result         Rec Limits         RPD           mg/kg         mg/kg         mg/kg         %         %         %           20.0         Source         Reporting         Prepared: 0           20.0         50.0         102         70-130           Source:         E405024-03         Prepared: 0           20.0         50.0         ND         98.2         70-130           Source:         E405024-03         Prepared: 0           20.0         50.0         ND         98.2         70-130           Zond         50.0         ND         98.2         70-130	Project Name:         Zeus SWD Line           Project Number:         24015-0001           Project Manager:         Chance Dixon           Nonhalogenated Organics by EPA 8015D - GRO           Reporting         Spike         Source         Rec         Limits         RPD         Limit           mg/kg         mg/kg         mg/kg         %         %         %         %           20.0         8.00         99.8         70-130         Prepared: 05/03/24         A           20.0         50.0         102         70-130         Prepared: 05/03/24         A           20.0         50.0         102         70-130         Prepared: 05/03/24         A           20.0         50.0         ND         98.2         70-130         A           20.0         50.0         ND         99.7         70-130         A


## **QC Summary Data**

		QC DI		ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 24015-0001 Chance Dixon					<b>Reported:</b> 5/8/2024 10:32:56AM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2418122-BLK1)							Prepared: 0	5/03/24 A	Analyzed: 05/03/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.1		50.0		116	50-200			
LCS (2418122-BS1)							Prepared: 0	5/03/24 A	Analyzed: 05/03/24
Diesel Range Organics (C10-C28)	299	25.0	250		119	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			
Matrix Spike (2418122-MS1)				Source: E	405024-	06	Prepared: 0	5/03/24 A	Analyzed: 05/03/24
Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike Dup (2418122-MSD1)				Source: E	405024-	06	Prepared: 0	5/03/24 A	Analyzed: 05/03/24
Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132	0.749	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			



## **QC Summary Data**

		$\mathbf{x} \circ \sim$			-				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 4015-0001	;				Reported:
Carlsbad NM, 88220		Project Manager:	C	hance Dixon					5/8/2024 10:32:56AM
		Anions	by EPA	300.0/9056A	۱.				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418129-BLK1)							Prepared: 0	5/03/24 A	Analyzed: 05/04/24
Chloride	ND	20.0							
LCS (2418129-BS1)							Prepared: 0	5/03/24 A	Analyzed: 05/04/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2418129-MS1)				Source:	E405024-0	03	Prepared: 0	5/03/24 A	Analyzed: 05/04/24
Chloride	301	20.0	250	40.0	104	80-120			
Matrix Spike Dup (2418129-MSD1)				Source:	E405024-(	03	Prepared: 0	5/03/24 A	Analyzed: 05/04/24
Chloride	300	20.0	250	40.0	104	80-120	0.247	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/08/24 10:32

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



-		nt Inform	nation				Invoic	e Informatio	n			L	ab Us	se On	lv	- 5-		TA	-		-	State	-
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City, Sta					-	Phone:					-	-		Ana	lysis	and N	letho	4	_			Program	
Phone:	(c) בוס.					Email: Miscellaneo				-					0.1					SDW	/A (	CWA	RCRA
Email:					_	viiscellaneo	Jus.				5	5								Comp	lianco	IV	or N
	1000	- States							1		8015	8015	-		0		× 1	8		PWSI		1110	or N
-				Sam	ole Inform	ation		-			RO by	RO by	/ 802	8260	e 300	NN-	1005 - TX R Metals						
Time Sampled	Date Sampled	Matrix	No. of Containers		,	Sample	ID		Field	Lab Lab Numbe	DRO/ORO	GRO/DRO by	BTEX by	VOC by 8260	Chloride 300.0	BGDOC - NM	ICEQ 1005 - TX RCRA & Metal				Re	marks	
900	5-1-24	So,1	1.	Stock	1 1	#4		2.0-		1	X	X	X		X					St	ano	bod	TAT
0190	1	1	1	Stock	pile i	#5		2.0-		2	1	1	1		1					1			
0920				Stock	pile ;	#6		2.0-		3			Π										
9930				Stock	ple.	#7		2.0-		4	T								-				
0940					kpile	#8		2.0-		5											1		
0950				WS2	4-01	,		4.0		6										Z	h	TAT	
				WSZ	4-02	2	4	4.0'		7													
7:10				WSZ	4-03			4.0-		8													
120		d	1	WSZ	4-04	'	4	4.0-		9				/	1								
230	V	V	19	WSZ	4-05	-	4	1.0		10	V	Ø	N		N								
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(find an area		1010	1120	1000	1/25		_																
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pplicable o	only to those sar	nples receiv	ed by the la	aboratory wi	th this COC.	The liability of	the labo	de. Hazardous s ratory is limited	to the am	ount paid for	ed to cl	ient o	r dispo ort	osed of	at the	client	expens	e. The rep	ort for th	e analys	is of the	e above sar	mples is
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St	40	5-1-24	Sel	1	W82	4-0	6	4.0-			11	X	X	X	-	X		F					ZDT	47	
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53	mpled by:	ner), attest to th	and ty and	authenticity	of this sampl	e. I am aw	are that	tampering with or intentionally n	mislabeling th	e sam	ple location,	, date o	or time	of colle	ction	is cons	idered	fraud a	and ma	ay be gr	ounds for	legal a	tion.		
and the second second	A CONTRACTOR OF	ed by: (Signatur	e)	Date		Time	-	Received by: (Signature)		Date		Time		-	-	-	Samela	TORUÍN	ing the	malas	anuticu		and a start	Jacob L	
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Sa	mple Mat	rix: S - Soil, Sd - S	olid, Sg - Slud	ige, A - Aque	ous, <b>O</b> - Othe	r	-			Cont	ainer Type	e: P -	plass	n - no	v/nl	astic	AVG	Tem		T	OAL	-	11/201	alter Later	
N	ote: Sam	ples are discard	led 14 days a	after result	s are reporte	ed unless o	other a	rangements are made. Hazaro	dous sample	es will	be returne	ed to a	lient c	or disno	sed	of at th	ne clier	texp	ense	The rea	port for t	the and	alvsis of the ab	ove samples	is
ap	plicable	only to those sa	amples rece	ived by the	laboratory v	with this C	OC. The	e liability of the laboratory is li	imited to th	e amo	unt paid fo	or on t	he rep	ort.			a oner	- chp		incre	portion	and and	aysis of the abt	ve samples	13
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## Envirotech Analytical Laboratory

Printed: 5/3/2024 11:52:56AM

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envirotech Inc.

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Sample Receipt Checklist (SRC)

lient:	Vertex Resource Services Inc. Da	ate Received:	05/03/24 05	:00	Work Order	D: E405024
Phone:	(575) 748-0176 Da	ate Logged In:	05/02/24 16	:06	Logged in B	y: Angelina Pineda
Email:	cdixon@vertex.ca	ue Date:	05/09/24 17	:00 (4 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location match	the COC	Ycs			
3. Were s	amples dropped off by client or carrier?		Ycs	Carrier: <u>C</u>	Courier	
4. Was th	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e. 15 minute hold time, are not included in this disuession.	c ficld,	Yes		<u>Com</u>	nents/Resolution
Sample	Turn Around Time (TAT)					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Samples: 6-11 and 1	3 have been cancelled
Sample (	<u>Cooler</u>				per client request pe	r text message. Green
7. Was a	sample cooler received?		Yes		copies made with co	rrections
8. If yes,	was cooler received in good condition?		Yes		•	
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling visible ice, record the temperature. Actual sample temperature	ceived w/i 15	Yes C			
Sample (	<u>Container</u>					
14. Are a	equeous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La						
	field sample labels filled out with the minimum inform Sample ID?	ation:	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
Sample	Preservation					
21. Does	the COC or field labels indicate the samples were prese	erved?	No			
	cample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved meta	als?	No			
<u>Multiph</u>	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multiphase?	1	No			
27. If yes	s, does the COC specify which phase(s) is to be analyze	d?	NA			
Subcont	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laboratory?		No			
29. Was a	a subcontract laboratory specified by the client and if so	who?	NA S	Subcontract Lab	: NA	

Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405058

Job Number: 24015-0001

Received: 5/4/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/7/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405058 Date Received: 5/4/2024 7:15:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/4/2024 7:15:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

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		Sample Sum	mai y		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0001		Reported:
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/07/24 14:11
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
VS24-09 4.0'	E405058-01A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
VS24-10 4.0'	E405058-02A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
VS24-11 4.0'	E405058-03A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
/S24-12 4.0'	E405058-04A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
VS24-13 4.0'	E405058-05A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
/S24-14 4.0'	E405058-06A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.
/824-15 4.0'	E405058-07A	Soil	05/02/24	05/04/24	Glass Jar, 2 oz.



	50	ample D	ala				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 240	s SWD Lin 15-0001 nce Dixon	e			<b>Reported:</b> 5/7/2024 2:11:50PM
Calisbau IVIVI, 66220	Tiojeet Wallag	ci. Cila					5///2024 2.11.501 W
	W	VS24-09 4.0'					
		E405058-01					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2418140
Benzene	ND	0.0250		1	05/04/24	05/04/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/04/24	
Foluene	ND	0.0250		1	05/04/24	05/04/24	
p-Xylene	ND	0.0250		1	05/04/24	05/04/24	
o,m-Xylene	ND	0.0500		1	05/04/24	05/04/24	
Fotal Xylenes	ND	0.0250		1	05/04/24	05/04/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/04/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		05/04/24	05/04/24	
Surrogate: Toluene-d8		99.4 %	70-130		05/04/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/04/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/04/24	05/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		05/04/24	05/04/24	
Surrogate: Toluene-d8		99.4 %	70-130		05/04/24	05/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	) mg/kg	mg/kg		Analyst:	КМ		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/04/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/04/24	
Surrogate: n-Nonane		74.8 %	50-200		05/04/24	05/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2418147
Chloride	764	20.0		1	05/04/24	05/05/24	





	Da	imple D	ata				
Vertex Resource Services Inc.	Project Name:	Zeus	SWD Lin	ne			
3101 Boyd Drive	Project Number	r: 2401	5-0001		Reported:		
Carlsbad NM, 88220	Project Manage	er: Chai	nce Dixon				5/7/2024 2:11:50PM
	W	'S24-10 4.0'					
	I	E405058-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	8260B mg/kg mg/kg Analyst: EG		EG		Batch: 2418140		
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
l'oluene	ND	0.0250		1	05/04/24	05/05/24	
-Xylene	ND	0.0250		1	05/04/24	05/05/24	
,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Total Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/04/24	05/05/24	
urrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/04/24	05/05/24	
urrogate: Toluene-d8		100 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/04/24	05/05/24	
urrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/04/24	05/05/24	
urrogate: Toluene-d8		100 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KM		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/04/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/04/24	
Surrogate: n-Nonane	:	73.5 %	50-200		05/04/24	05/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2418147
Chloride	308	20.0		1	05/04/24	05/05/24	



	S	ample D	ata				
Vertex Resource Services Inc.	Project Name	e: Zeus	s SWD Lii	ne			
3101 Boyd Drive	Project Numb	ber: 240	5-0001	Reported:			
Carlsbad NM, 88220	Project Mana	ger: Cha	nce Dixon				5/7/2024 2:11:50PM
	,	WS24-11 4.0'					
		E405058-03					
		Reporting					
Analyte	Result	Limit	Di	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: EG			Batch: 2418140
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
Toluene	ND	0.0250		1	05/04/24	05/05/24	
p-Xylene	ND	0.0250		1	05/04/24	05/05/24	
p,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Total Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		88.2 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.4 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		88.2 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.4 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/04/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/04/24	
Surrogate: n-Nonane		73.0 %	50-200		05/04/24	05/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2418147
Chloride	414	20.0		1	05/04/24	05/05/24	



	Sa	ample D	ata				
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Li	ne			
3101 Boyd Drive	Project Numbe	er: 240	5-0001	Reported:			
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon	L			5/7/2024 2:11:50PM
	v	VS24-12 4.0'					
		E405058-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	g Analyst: EG			Batch: 2418140	
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
Toluene	ND	0.0250		1	05/04/24	05/05/24	
p-Xylene	ND	0.0250		1	05/04/24	05/05/24	
o,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Total Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.8 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.8 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/05/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/05/24	
Surrogate: n-Nonane		73.4 %	50-200		05/04/24	05/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2418147
Chloride	479	20.0		1	05/04/24	05/05/24	



	5	ample D	aca				
Vertex Resource Services Inc.	Project Name		SWD Lin 5-0001	ie			Reported:
3101 Boyd Drive Carlsbad NM, 88220	Project Numb Project Manag		15-0001 nce Dixon		5/7/2024 2:11:50PM		
	i ioject ivialiaj	ger. Cita					5///2024 2.11.501 W
	١	WS24-13 4.0'					
		E405058-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	EG		Batch: 2418140
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
Toluene	ND	0.0250		1	05/04/24	05/05/24	
o-Xylene	ND	0.0250		1	05/04/24	05/05/24	
o,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Fotal Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		107 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		100 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		107 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		100 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KM		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/05/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/05/24	
Surrogate: n-Nonane		73.0 %	50-200		05/04/24	05/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2418147
Chloride	470	20.0		1	05/04/24	05/05/24	



	D.	ample D	uu				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 240	s SWD Lir 5-0001 nce Dixon				<b>Reported:</b> 5/7/2024 2:11:50PM
Cansoau NW, 86220							5///2024 2.11.501 W
	W	VS24-14 4.0'					
		E405058-06					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg Analyst: EG		: EG		Batch: 2418140		
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
Toluene	ND	0.0250		1	05/04/24	05/05/24	
p-Xylene	ND	0.0250		1	05/04/24	05/05/24	
o,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Total Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.3 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		99.3 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/05/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/05/24	
Surrogate: n-Nonane		72.6 %	50-200		05/04/24	05/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2418147
Chloride	356	20.0		1	05/04/24	05/05/24	



	Sa	ample D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 240	s SWD Lin 15-0001 nce Dixon	le			<b>Reported:</b> 5/7/2024 2:11:50PM
		VS24-15 4.0'					
		E405058-07					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	ile Organic Compounds by EPA 8260B mg/kg mg/kg Analyst: EG			Batch: 2418140			
Benzene	ND	0.0250		1	05/04/24	05/05/24	
Ethylbenzene	ND	0.0250		1	05/04/24	05/05/24	
Toluene	ND	0.0250		1	05/04/24	05/05/24	
o-Xylene	ND	0.0250		1	05/04/24	05/05/24	
o,m-Xylene	ND	0.0500		1	05/04/24	05/05/24	
Total Xylenes	ND	0.0250		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		85.3 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2418140
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/04/24	05/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		05/04/24	05/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		05/04/24	05/05/24	
Surrogate: Toluene-d8		85.3 %	70-130		05/04/24	05/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КМ		Batch: 2418145
Diesel Range Organics (C10-C28)	ND	25.0		1	05/04/24	05/05/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/04/24	05/05/24	
Surrogate: n-Nonane		73.3 %	50-200		05/04/24	05/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2418147
Chloride	843	20.0		1	05/04/24	05/05/24	



# QC Summary Data

Vertex Resource Services Inc.				us SWD Line					
		Project Name:							Reported:
3101 Boyd Drive		Project Number:		015-0001					
Carlsbad NM, 88220		Project Manager:	Ch	ance Dixon				5/	/7/2024 2:11:50PM
		Volatile Organic	Compo	unds by EP	A 82601	B			Analyst: EG
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418140-BLK1)							Prepared: 0	5/04/24 Ana	lyzed: 05/04/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.528	0.0250	0.500		106	70-130			
	0.528		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4									
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
LCS (2418140-BS1)							Prepared: 0	5/04/24 Ana	lyzed: 05/04/24
Benzene	2.77	0.0250	2.50		111	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.48	0.0250	2.50		99.3	70-130			
p-Xylene	2.48	0.0250	2.50		99.1	70-130			
o,m-Xylene	5.00	0.0500	5.00		99.9	70-130			
Total Xylenes	7.47	0.0250	7.50		99.7	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike (2418140-MS1)				Source: H	405058-	01	Prepared: 0	5/04/24 Ana	lyzed: 05/04/24
Benzene	2.77	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
p-Xylene	2.56	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
		0.0250	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.516								
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500 0.500		101 100	70-130 70-130			
Surrogate: Toluene-d8	0.501		0.500						
Matrix Spike Dup (2418140-MSD1)				Source: H					lyzed: 05/04/24
Benzene	2.72	0.0250	2.50	ND	109	48-131	2.01	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	2.32	27	
Toluene	2.46	0.0250	2.50	ND	98.2	48-130	2.71	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	0.622	27	
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135	0.501	27	
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135	0.541	27	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichorocentare-u4 Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			



## **QC Summary Data**

		QC D	u 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ary Data	•				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	eus SWD Line 4015-0001 hance Dixon					<b>Reported:</b> 5/7/2024 2:11:50PM
	No	onhalogenated O	rganics	by EPA 801	5D - GR	0			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418140-BLK1)							Prepared: 0	5/04/24 A	analyzed: 05/04/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
LCS (2418140-BS2)							Prepared: 0	5/04/24 A	analyzed: 05/04/24
Gasoline Range Organics (C6-C10)	56.9	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
Matrix Spike (2418140-MS2)				Source: E	405058-01		Prepared: 0	5/04/24 A	analyzed: 05/04/24
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			
Matrix Spike Dup (2418140-MSD2)				Source: E	405058-01		Prepared: 0	5/04/24 A	analyzed: 05/04/24
Gasoline Range Organics (C6-C10)	61.1	20.0	50.0	ND	122	70-130	9.41	20	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

# **QC Summary Data**

		QC D	umme	ii y Data	•				
Vertex Resource Services Inc.		Project Name:		eus SWD Line					Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					
Carlsbad NM, 88220		Project Manager:	C	hance Dixon					5/7/2024 2:11:50PM
	Nonh	nalogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418145-BLK1)							Prepared: 0	5/04/24 A	analyzed: 05/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.0		50.0		74.0	50-200			
LCS (2418145-BS1)							Prepared: 0	5/04/24 A	analyzed: 05/04/24
Diesel Range Organics (C10-C28)	224	25.0	250		89.8	38-132			
Surrogate: n-Nonane	37.3		50.0		74.5	50-200			
LCS Dup (2418145-BSD1)							Prepared: 0	5/04/24 A	analyzed: 05/04/24
Diesel Range Organics (C10-C28)	231	25.0	250		92.4	38-132	2.85	20	
Surrogate: n-Nonane	37.3		50.0		74.5	50-200			



# **QC Summary Data**

				v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	9				Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					-
Carlsbad NM, 88220		Project Manager:	: C	hance Dixon					5/7/2024 2:11:50PM
		Anions	by EPA 3	300.0/90564	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2418147-BLK1)							Prepared: 0	5/04/24	Analyzed: 05/04/24
Chloride	ND	20.0							
LCS (2418147-BS1)							Prepared: 0	5/04/24	Analyzed: 05/04/24
Chloride	263	20.0	250		105	90-110			
LCS Dup (2418147-BSD1)							Prepared: 0	5/04/24	Analyzed: 05/04/24
Chloride	261	20.0	250		104	90-110	0.760	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/07/24 14:11

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

1						Ch	nain of (	Cust	ody													Page	of
		nt Inforn	nation	_		oice Inform	10 10 10 10 10 10 10 10 10 10 10 10 10 1				L	ab U	se O	nly				TAT	г			Stat	te
Client: Project	Name: 20 Manager: (	vs Sh	VD 4	ne	Address:	p Rock	Resou	rce		b WO	#	8	Job 24	Num	ber -00	01	1D	2D X	3D Std		NM	CO UT	TX
Address		nunce	UNC		City, State, Zip: Phone:			-	-	-			An	alysis	and	Mot	hod				ED	A Progr	am
City, Sta	te, Zip:				Email:				_	-	T	1			anu	IVIEL			-	SDV		CWA	RCRA
Phone:					Miscellaneous:																		
Email:			-		L					8015	015										pliance	e Y	or N
-				Sample Infor	mation					-	Å	021	260	0.00	WN	XL-	letals			PWS	ID #		
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID			Field	Lab Numbe	DRO/ORO	GRO/DRO	RTEX by 2021	VOC by 8260	Chloride 90.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				ſ	Remark	S
1300	5-2-24	Soil	1	WS24-00 WS24-10	4.	0.				1	1	1	•	1	1								
1310	1	(	1	LS24-10	4.	0'			2														
1320				W524-11	4.0				3														
1330				WS24-12	- 4.0	7-			4														
1340				WS24-13	4.0	7			5														
1350		51		WS24-14	4.0	1			6	11	11	1/		1									
1400	V	V	V	WS24-15	4.0	1			F	V	A	V		V									
									-	-													
Addition	al Instructior	NC'	0.0	- 1- 1					2														
			NI	MZOZ6	23/125																		
Sampled by:	-, 0	in	authenticity	of this sample. I am awar		intentionally n	nislabeling th	ne samp	ole locatio	n, date o	r time	of coll	ection	is cons	dered	fraud	and m	ay be gro	ounds for le	gal act	ion.		
/	ed by Signature	1	J Date	3 24 15: L	18 Received by: (Si	ignature)	Jano	Date	13/24	Time	540	5	44						ervation mus ce at an avg				
6	ed by: (Signature	) Ja	for Date	3/24 Time 3/24 1701	Received by (Si	ignature) (		Date S.	3.24	Time [C					Rece	ived	on ic	e. 1	Lab Use	e Onl	У		
Relinguistie	by: (Signature	$_{2}$	Date	3.24 Time	Received by: (Si	gnature)	and	Date	1	Time	15	-			T1	iveu	onic	T.				2	
Relinquishe	ed by: (Signature	2)	Date	Time	Received by: (Si	gnature)	0	Date		Time	10				AVG	Tem	n°c	Ц				<u>,</u>	
	rix: <b>S</b> - Soil, <b>Sd</b> - So							Conta	iner Typ	be: g - g	lass,	p - pc	oly/pl	astic,	ag - a	mber	r glass	5, V - VC	A	_	_		
Note: Samp applicable	oles are discarde only to those sar	d 14 days a nples receiv	iter results ved by the l	are reported unless ot aboratory with this CO	her arrangements are C. The liability of the la	made. Hazaro aboratory is lin	dous sample mited to the	es will l e amou	be returr unt paid f	ed to cl	ient o ne rep	or dispo ort.	osed c	of at th	e clier	nt exp	ense.	The rep	ort for the	analy	sis of t	he above	e samples is

Released to Imaging: 7/11/2024 2:56:53 PM

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C

Received	l by OCD: 6/4/2024 3:34:34 PM	nvirotech	Analytical	Laboratory		<i>Page 170 of 3</i> Printed: 5/6/2024 3:28:22PM
	_		·	·		
nstructions	s: Please take note of any NO checkmarks.	Sample	Receipt Chec	KIIST (SKC)		
f we receiv	e no response concerning these items within 24 hours of the	date of this not	ice, all the sample	es will be analyzed as requ	uested.	
Client:	Vertex Resource Services Inc. D	ate Received:	05/04/24 07:15		Work Order ID:	E405058
Phone:	(575) 748-0176 D	ate Logged In:	05/04/24 09:40		Logged In By:	Raina Schwanz
Email:		ue Date:	05/07/24 17:00	(1 day TAT)	Logged in Dy.	
				()		
<u>Chain o</u>	<u>f Custody (COC)</u>					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes	· · · · <u>· · · · · · · · · · · · · · · </u>		
5. Were	all samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in th				Commer	ts/Resolution
<b>a</b> 1	i.e, 15 minute hold time, are not included in this disucssion.				<u>commen</u>	
	<u>Turn Around Time (TAT)</u>		Yes			
	ne COC indicate standard TAT, or Expedited TAT?		ies			
Sample	sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
•						
	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
•	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4 <sup>c</sup>	°C			
Sample	Container	-				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
19. Is the	e appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u> s the COC or field labels indicate the samples were pres	am cad 9	N-			
	sample(s) correctly preserved?	erveu?	No NA			
	b filteration required and/or requested for dissolved met	als?	No			
		wa.J .	110			
	ase Sample Matrix	)	N-			
	s the sample have more than one phase, i.e., multiphase		No			
•	es, does the COC specify which phase(s) is to be analyze	ur.	NA			
-	tract Laboratory					
28. Are	samples required to get sent to a subcontract laboratory?	?	No			

28. Are samples required to get sent to a subcontract laboratory?	No
29. Was a subcontract laboratory specified by the client and if so who?	NA
Client Instruction	

Subcontract Lab: NA



envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405076

Job Number: 19031-0001

Received: 5/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/8/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405076 Date Received: 5/7/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com



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r.		Sample Sum		0	
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Zeus SWD Line 19031-0001 Chance Dixon		<b>Reported:</b> 05/08/24 12:48
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS24-16 4.0'	E405076-01A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.
WS24-18 4.0'	E405076-02A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.
WS24-20 4.0'	E405076-03A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.
WS24-22 4.0'	E405076-04A	Soil	05/03/24	05/07/24	Glass Jar, 2 oz.



	S	ample D	ata			
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name Project Numb Project Manag	ber: 190	s SWD Line 31-0001 nce Dixon			<b>Reported:</b> 5/8/2024 12:48:07PM
		WS24-16 4.0'				
		E405076-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG	Batch: 2419057	
Benzene	ND	0.0250	1	05/07/24	05/07/24	
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24	
Toluene	ND	0.0250	1	05/07/24	05/07/24	
p-Xylene	ND	0.0250	1	05/07/24	05/07/24	
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24	
Total Xylenes	ND	0.0250	1	05/07/24	05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24	
Surrogate: n-Nonane		102 %	50-200	05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2419056
Chloride	182	20.0	1	05/07/24	05/07/24	



	56	ample D	ata				
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line				
3101 Boyd Drive	Project Numbe	er: 190.	31-0001	Reported:			
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/8/2024 12:48:07PM	
	V	VS24-18 4.0'					
		E405076-02					
		Reporting					
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: EG		Batch: 2419057	
Benzene	ND	0.0250	1	05/07/24	05/07/24		
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24		
Toluene	ND	0.0250	1	05/07/24	05/07/24		
o-Xylene	ND	0.0250	1	05/07/24	05/07/24		
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24		
Fotal Xylenes	ND	0.0250	1	05/07/24	05/07/24		
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: EG		Batch: 2419057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2419058	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24		
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24		
Surrogate: n-Nonane		101 %	50-200	05/07/24	05/07/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2419056	
Chloride	804	20.0	1	05/07/24	05/07/24		



	Si	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 1903	31-0001	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/8/2024 12:48:07PM
	V	VS24-20 4.0'				
		E405076-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	d Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	analyst: EG		Batch: 2419057
Benzene	ND	0.0250	1	05/07/24	4 05/07/24	
Ethylbenzene	ND	0.0250	1	05/07/24	4 05/07/24	
Toluene	ND	0.0250	1	05/07/24	4 05/07/24	
p-Xylene	ND	0.0250	1	05/07/24	4 05/07/24	
o,m-Xylene	ND	0.0500	1	05/07/24	4 05/07/24	
Fotal Xylenes	ND	0.0250	1	05/07/24	4 05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	05/07/24	4 05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	4 05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/07/24	4 05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	analyst: KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	4 05/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	4 05/07/24	
Surrogate: n-Nonane		103 %	50-200	05/07/24	4 05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2419056
Chloride	921	20.0	1	05/07/24	4 05/07/24	



	5	ampie D	ala				
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line	;			
3101 Boyd Drive	Project Numbe	er: 190	31-0001	Reported:			
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon				5/8/2024 12:48:07PM
	v	VS24-22 4.0'					
		E405076-04					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: EG			Batch: 2419057
Benzene	ND	0.0250	1		05/07/24	05/07/24	
Ethylbenzene	ND	0.0250	1		05/07/24	05/07/24	
Toluene	ND	0.0250	1		05/07/24	05/07/24	
p-Xylene	ND	0.0250	1		05/07/24	05/07/24	
o,m-Xylene	ND	0.0500	1		05/07/24	05/07/24	
Total Xylenes	ND	0.0250	1		05/07/24	05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130		05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: ]	EG		Batch: 2419057
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130		05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: ]	KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1		05/07/24	05/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1		05/07/24	05/07/24	
Surrogate: n-Nonane		103 %	50-200		05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: ]	IY		Batch: 2419056
Chloride	1390	20.0	1		05/07/24	05/07/24	



# **QC Summary Data**

		<b>X</b> U N			•				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	1	Zeus SWD Line 9031-0001 Chance Dixon					<b>Reported:</b> 5/8/2024 12:48:07PM
		, ,		by EPA 8021	1B				Analyst: EG
			-	-					11111/501 2.0
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	Analyzed: 05/07/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62	0.0220	8.00		95.3	70-130			
LCS (2419057-BS1)							Prepared: 0	5/07/24 A	Analyzed: 05/07/24
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
o-Xylene	5.00	0.0250	5.00		99.9	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			
Matrix Spike (2419057-MS1)				Source: I	E <b>405077-</b>	04	Prepared: 0	5/07/24 A	Analyzed: 05/07/24
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	4.99	0.0250	5.00	ND	99.7	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131			
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			
Matrix Spike Dup (2419057-MSD1)				Source: I	E405077-	04	Prepared: 0	5/07/24 A	Analyzed: 05/07/24
Benzene	4.66	0.0250	5.00	ND	93.2	54-133	8.09	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	7.82	20	
Toluene	4.60	0.0250	5.00	ND	92.0	61-130	8.07	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	63-131	8.01	20	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	63-131	8.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	63-131	8.02	20	



# **QC Summary Data**

		QU D		ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	1	Ceus SWD Line 9031-0001 Chance Dixon					<b>Reported:</b> 5/8/2024 12:48:07PM
	No	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2419057-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
LCS (2419057-BS2)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike (2419057-MS2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2419057-MSD2)				Source: E	405077-	04	Prepared: 0	5/07/24 A	analyzed: 05/07/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			


## **QC Summary Data**

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		us SWD Line 031-0001					Reported:
Carlsbad NM, 88220		Project Manager:	Cł	nance Dixon					5/8/2024 12:48:07PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419058-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
		2010							
Surrogate: n-Nonane	52.1	2010	50.0		104	50-200			
Surrogate: n-Nonane LCS (2419058-BS1)	52.1		50.0		104	50-200	Prepared: 0:	5/07/24 A	analyzed: 05/07/24
	<i>52.1</i> 303	25.0	<i>50.0</i> 250		104	50-200 38-132	Prepared: 0:	5/07/24 A	analyzed: 05/07/24
LCS (2419058-BS1) Diesel Range Organics (C10-C28)							Prepared: 0:	5/07/24 A	analyzed: 05/07/24
LCS (2419058-BS1)	303		250		121	38-132			analyzed: 05/07/24 analyzed: 05/07/24
LCS (2419058-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane	303		250		121	38-132			



## **QC Summary Data**

		•		v					
Vertex Resource Services Inc.		Project Name:		eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	19	031-0001					
Carlsbad NM, 88220		Project Manager	C C	hance Dixon					5/8/2024 12:48:07PM
		Anions	by EPA 3	800.0/9056 <i>A</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419056-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	ND	20.0							
LCS (2419056-BS1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	258	20.0	250		103	90-110	1.66	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	19031-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/08/24 12:48

ND	Analyte NOT DETECTED at or above the reporting limit	
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- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project	Information
	1

nt: /erex	Jo o		La	b Use	Only		T		TAT	EPA P	rogram
ect: Zevs ShD Line ect Manager: Chance Dixen Address:	Resources 1	Lab WO#				mber 1-0001	1D	2D 30	Standard	CWA	SDW
ect Manager: Chemice Dixen Address: ress: City, State, Zip		E405	014					X	1		RCRA
, State, Zip Phone:		ph			naiysis	and Metho					NCR/
ne: Email:		ORO			11					State	
il:ort due by:		DRO/	021	60	10		WN	×	NM CO	UT AZ	TX
ne Date Hand	Lab	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010		1.00				
pled Sampled Matrix Containers Sample ID	Number	TPH ( 8015	BTEX	VOC	Meta		BGDOC	BGDOC		Remarks	-
0 5-3-24 So, 1 1 WS24-16 4,0	1	X	X		X						
10     WS24-18 4.0	2	1	1					1-1-			
20 1 1524-20 4.0	3										
30 V V WSZY-22 4.0	ų		1/		1		-				
30 V V NSZ4-22 4.0'	1	V	V	-	1					_	
		-		-	-		1				
					-		-				
		-					-				
				-			+				
itional Instructions: NRM2026231125											
sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or		ocation,							received on ice the day in 6 °C on subsequent da		ed or recei
r time of collection is considered fraud and may be grounds for legal action. <u>Sample</u> usined by (Signature) <u>Date</u> Time Received by: (Sign		Time		-				ab Use C			
4/1 5/6/24 10:07 Muchelle	ongales 5-6-20		07	R	eceive	d on ice:	-	V N			
inished by (Signature) Date Time Received by (Signature)	e) Date	Time	705								
u)sher by: (Signature) Date Time Received by: (Sign	5.6.2 Date	Time	103		1		<u>T2</u>		<u>T3</u>		
.A. 5.6.24 2400 higher	4111 5-7-24	1 05	500	A	VG Te	mp °C (	1				
e Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container T	Type: g - g		- pol	y/plast	c, ag - amb					
Samples are discarded 30 days after results are reported unless other arrangements are	de. Hazardous samples will be of the laboratory is limited to t						ent exp	ense. The	e report for the ana	lysis of the	above

#### **Envirotech Analytical Laboratory**

Printed: 5/7/2024 9:11:40AM

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envirotech Inc.

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#### Sample Receipt Checklist (SRC)

Client:	Vertex Resource Services Inc.	Date Received:	05/07/24 05	5:00	Work Order ID:	E405076
Phone:	(575) 748-0176	Date Logged In:	05/06/24 15	5:59	Logged In By:	Angelina Pineda
Email:	cdixon@vertex.ca	Due Date:	05/08/24 11	7:00 (1 day TAT)		
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
2. Does 1	he number of samples per sampling site loca	tion match the COC	Yes			
B. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/time	s, requested analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be con i.e, 15 minute hold time, are not included in this		Yes		Commen	ts/Resolution
Sample '	Turn Around Time (TAT)					
5. Did th	e COC indicate standard TAT, or Expedited	FAT?	Yes			
Sample			-			
	sample cooler received?		Yes			
• •	was cooler received in good condition?		Yes	]		
9. Was ti	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
ll. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded ten Note: Thermal preservation is not required, if sa minutes of sampling visible ice, record the temperature. Actual	mples are received w/i 15	Yes			
		sample temperature. $\underline{+}$	<u> </u>			
	Container		No			
	aqueous VOC samples present?		No NA			
	VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or l	acc)?	NA			
	a trip blank (TB) included for VOC analyses		NA			
	non-VOC samples collected in the correct co		Yes			
	appropriate volume/weight or number of sample		Yes			
		e containers concerca.	103			
Field La	field sample labels filled out with the minin	um information				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	Preservation					
21. Does	the COC or field labels indicate the samples	were preserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dis	solved metals?	No			
Multiph	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., r	nultiphase?	No			
27. If ye	s, does the COC specify which phase(s) is to	be analyzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract	laboratory?	No			
	a subcontract laboratory specified by the clie			Subcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405075

Job Number: 19031-0001

Received: 5/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/8/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405075 Date Received: 5/7/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/7/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com



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v		Sample Sum	mary		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	19031-0001		reporteur
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/08/24 12:48
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WS24-23 4.0'	E405075-01A	Soil	05/04/24	05/07/24	Glass Jar, 2 oz.
WS24-24 4.0'	E405075-02A	Soil	05/04/24	05/07/24	Glass Jar, 2 oz.
WS24-25 4.0'	E405075-03A	Soil	05/04/24	05/07/24	Glass Jar, 2 oz.



	58	imple D	ata					
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line	;				
3101 Boyd Drive	Project Numbe	r: 1903	31-0001				Reported:	
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon				5/8/2024 12:48:58PM	
	W	'S24-23 4.0'						
	]	E405075-01						
		Reporting						
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst:	BA		Batch: 2419059	
Benzene	ND	0.0250	1		05/07/24	05/07/24		
Ethylbenzene	ND	0.0250	1		05/07/24	05/07/24		
Toluene	ND	0.0250	1		05/07/24	05/07/24		
o-Xylene	ND	0.0250	1		05/07/24	05/07/24		
o,m-Xylene	ND	0.0500	1		05/07/24	05/07/24		
Fotal Xylenes	ND	0.0250	1		05/07/24	05/07/24		
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130		05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ĺ	Analyst:	BA		Batch: 2419059	
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/07/24	05/07/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130		05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	KM		Batch: 2419058	
Diesel Range Organics (C10-C28)	ND	25.0	1		05/07/24	05/07/24		
Dil Range Organics (C28-C36)	ND	50.0	1		05/07/24	05/07/24		
Surrogate: n-Nonane		115 %	50-200		05/07/24	05/07/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2419056	
Chloride	1090	20.0	1		05/07/24	05/07/24		



	Sa	imple D	ala				
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line				
3101 Boyd Drive	Project Number	r: 1903	31-0001			Reported:	
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/8/2024 12:48:58PM	
	W	'S24-24 4.0'					
		E405075-02					
		Reporting					
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2419059	
Benzene	ND	0.0250	1	05/07/24	05/07/24		
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24		
Toluene	ND	0.0250	1	05/07/24	05/07/24		
o-Xylene	ND	0.0250	1	05/07/24	05/07/24		
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24		
Total Xylenes	ND	0.0250	1	05/07/24	05/07/24		
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2419059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KM		Batch: 2419058	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24		
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24		
Surrogate: n-Nonane		105 %	50-200	05/07/24	05/07/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2419056	
Chloride	182	20.0	1	05/07/24	05/07/24		



	25	imple D	ลเล				
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line				
3101 Boyd Drive	Project Numbe	er: 190	31-0001			Reported:	
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/8/2024 12:48:58PM	
	W	/S24-25 4.0'					
	]	E405075-03					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2419059	
Benzene	ND	0.0250	1	05/07/24	05/07/24		
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24		
Foluene	ND	0.0250	1	05/07/24	05/07/24		
p-Xylene	ND	0.0250	1	05/07/24	05/07/24		
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24		
Total Xylenes	ND	0.0250	1	05/07/24	05/07/24		
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2419059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	70-130	05/07/24	05/07/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2419058	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24		
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24		
Surrogate: n-Nonane		103 %	50-200	05/07/24	05/07/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2419056	
Chloride	909	20.0	1	05/07/24	05/07/24		



	56	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 190	31-0001			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/8/2024 12:48:58PM
	W	VS24-26 4.0'				
		E405075-04				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2419059
Benzene	ND	0.0250	1	05/07/24	05/07/24	
Ethylbenzene	ND	0.0250	1	05/07/24	05/07/24	
Toluene	ND	0.0250	1	05/07/24	05/07/24	
o-Xylene	ND	0.0250	1	05/07/24	05/07/24	
o,m-Xylene	ND	0.0500	1	05/07/24	05/07/24	
Fotal Xylenes	ND	0.0250	1	05/07/24	05/07/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: BA		Batch: 2419059
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/07/24	05/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	05/07/24	05/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: KM		Batch: 2419058
Diesel Range Organics (C10-C28)	ND	25.0	1	05/07/24	05/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/07/24	05/07/24	
Surrogate: n-Nonane		104 %	50-200	05/07/24	05/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: IY		Batch: 2419056
Chloride	374	20.0	1	05/07/24	05/07/24	



## QC Summary Data

		<b>X</b> U N			<u> </u>				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	1	Ceus SWD Line 9031-0001 Chance Dixon					<b>Reported:</b> 5/8/2024 12:48:58PM
		Volatile O	rganics	by EPA 8021	B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419059-BLK1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Benzene	ND	0.0250					-		· ·
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.56	010220	8.00		94.4	70-130			
LCS (2419059-BS1)							Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.5	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.08	0.0250	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			
Matrix Spike (2419059-MS1)				Source: <b>F</b>	E405086-	03	Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Benzene	5.56	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133			
Toluene	5.50	0.0250	5.00	ND	110	61-130			
o-Xylene	5.36	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			
Matrix Spike Dup (2419059-MSD1)				Source: <b>F</b>	E405086-	03	Prepared: 0	5/07/24 A	nalyzed: 05/07/24
Benzene	5.33	0.0250	5.00	ND	107	54-133	4.20	20	
F4 11	5.04	0.0250	5.00	ND	101	61-133	4.29	20	
Ethylbenzene	5.04								
-	5.26	0.0250	5.00	ND	105	61-130	4.40	20	
Ethylbenzene Toluene o-Xylene			5.00 5.00	ND ND	105 103	61-130 63-131	4.40 4.28	20 20	
Toluene o-Xylene	5.26	0.0250							
Toluene	5.26 5.14	0.0250 0.0250	5.00	ND	103	63-131	4.28	20	



## **QC Summary Data**

Data		
WD Line -0001 e Dixon		<b>Reported:</b> 5/8/2024 12:48:58PM
EPA 8015D - GRO		Analyst: BA
Result Rec Lin	nits RPD Lim	-
	Prepared: 05/07/24	Analyzed: 05/07/24
99.6 70-	130	
	Prepared: 05/07/24	Analyzed: 05/07/24
103 70-	130	
101 70-	130	
Source: E405086-03	Prepared: 05/07/24	Analyzed: 05/07/24
ND 97.1 70-	130	
101 70	130	
Source: E405086-03	Prepared: 05/07/24	Analyzed: 05/07/24
ND 100 70-	130 3.24 20	
103 70-	130	
E	WD Line   0001   0001   Dixon   EPA 8015D - GRO   Source R   Result Rec Lin   mg/kg % %   99.6 70-   103 70-   101 70-   Source: E405086-03   ND 97.1 70-   Source: E405086-03 70-   ND 100 70-	WD Line 0001   0001 Dixon   EPA 8015D - GRO RPT   Source Rec RPD   Result Rec Limits   mg/kg % % %   99.6 70-130 Prepared: 05/07/24   103 70-130 Prepared: 05/07/24   Source: E405086-03 Prepared: 05/07/24   ND 97.1 70-130   Source: E405086-03 Prepared: 05/07/24   ND 97.1 70-130   Source: E405086-03 Prepared: 05/07/24   ND 100 70-130



## **QC Summary Data**

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		us SWD Line 031-0001					Reported:
Carlsbad NM, 88220		Project Manager:	Ch	nance Dixon					5/8/2024 12:48:58PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419058-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
2'I P 0 : (C20 C20)									
Dil Range Organics (C28-C36)	ND	50.0							
	ND 52.1	50.0	50.0		104	50-200			
Dil Range Organics (C28-C36) Surrogate: n-Nonane LCS (2419058-BS1)		50.0	50.0		104	50-200	Prepared: 0:	5/07/24 A	analyzed: 05/07/24
Surrogate: n-Nonane		25.0	50.0		104	50-200	Prepared: 0:	5/07/24 A	analyzed: 05/07/24
Surrogate: n-Nonane LCS (2419058-BS1)	52.1						Prepared: 0.	5/07/24 A	analyzed: 05/07/24
Surrogate: n-Nonane LCS (2419058-BS1) Diesel Range Organics (C10-C28)	<i>52.1</i> 303		250		121	38-132			analyzed: 05/07/24 analyzed: 05/07/24
Surrogate: n-Nonane LCS (2419058-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane	<i>52.1</i> 303		250		121	38-132			



## **QC Summary Data**

		•		v					
Vertex Resource Services Inc.		Project Name:		eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	19	9031-0001					
Carlsbad NM, 88220		Project Manager:	C C	hance Dixon					5/8/2024 12:48:58PM
		Anions	by EPA 3	800.0/9056 <i>A</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419056-BLK1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	ND	20.0							
LCS (2419056-BS1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	254	20.0	250		101	90-110			
LCS Dup (2419056-BSD1)							Prepared: 0	5/07/24 A	analyzed: 05/07/24
Chloride	258	20.0	250		103	90-110	1.66	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	19031-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/08/24 12:48

ND	Analyte NOT DETECTED at or above the reporting limit	
----	--	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

A Client Information	Invoice Information			L	ab U	se O	nlv	-		т	AT	State
lient. Pricx	2 2 4 / 4	Lab	WO	Lab Use Only							3D Sto	
Project Name: Zevs Swith Line Project Manager: Chance DIXON	Address:	F	Lab WO# Job Number 1D 2D E 405075 19031-0001						1 30 310			
roject Manager: Chance Dixon	City, State, Zip:								-1			
ddress:	Phone:		1			An	alysis	s and	Met	hod		EPA Program
ity, State, Zip: hone:	Email:	-										SDWA CWA RCRA
mail:	Miscellaneous:											
niun.		L	8015	3015								Compliance Y or N
Sample Ir	formation Sample ID 문 법 Nut	-	A	GRO/DROD 801	BTEX by 0021	260	Chloride 30.0	WN	×L-	RCRA 8 Metals		PWSID #
Time Date Sampled Matrix No. of	Semala ID E a L	ab	/OR(	(D)	A	VOC by 8260	ride	BGDOC - NM	ICEQ 1005 - TX	A 8 M		Remarks
Sampled	Sample ID E H Nu	mber		ERO /		VOC	(g)	BGD	TCEQ	RCR4		incinarios
900 5-4-24 So. 1 1 WS24-	23 4.0	1	1	Ĩ	1		1					
1910 1 1 1 WS24-	24 4.0 2	2										
9900 5-4-24 So. 1 1 WS24- 1910 1 WS24- 1920 V V WS24- 1930 V V V WS24-	25 4.0	3			11							
7930 V V V LSZY-	26 40 1	f	V	W	W		V					-1 -1
		-	r									
	÷		1									
		-							-			
		-	-					_	-			
		-		-	-	-						
				-	-				-	-		•
Additional Instructions:	17076731175				-				-	_		
(field sampler), attest to the variation and authenticity of this sample. I am	aware that tampering with or intentionally mislabeling the sample loc	cation,	date o	r time	of coll	ection	is cons	idered	fraud	and may be	grounds for l	legal action.
elinquistred by: (Signature) Date 5/6/24 Time	07 Received by: (Signature) Received by: (Signature) Received by: (Signature)	0.6	Time									ust be received on ice the day they are
Time Date Time			Time	00	1			sample	d or rec uent day	eived packed		g temp above 0 but less than 6C on Se Only
elingy/shed by: (Signature) Date Time	5.6.	24	1.	103	5			Rece	ived	on ice:		
- cl. 5.6.242	100 Received by: (Signature) Date 5-7-2		Time	-17	5			-				100
elinquished by: (Signature) Date Time	Received by: (Signature) Date	4	Time	d		-		<u>[1</u>			<u>T2</u>	<u></u>
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container	Type	. P - P	lass	n - n(	alv/nl:	astic	AVG	Tem			
ote: Samples are discarded 14 days after results are reported unle	s other arrangements are made. Hazardous samples will be re	turne	d to cl	ient o	r disn	osed o	of at th	ne clier	ntexp	ense. The r	eport for th	ne analysis of the above samples
pplicable only to those samples received by the laboratory with thi	COC. The liability of the laboratory is limited to the amount pa	aid for	r on th	e ren	ort.				- Sub	and the t	-portion ti	te analysis of the above samples

Released to Imaging: 7/11/2024 2:56:53 PM

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Received by OCD: 6/4/2024 3:34:34 PM

#### **Envirotech** Analytical Laboratory

Printed: 5/7/2024 9:04:38AM

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Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	05/07/24 05:00	Work Order ID:	E405075
Phone:	(575) 748-0176	Date Logged In:	05/06/24 15:54	Logged In By:	Angelina Pineda
Email:	cdixon@vertex.ca	Due Date:	05/08/24 17:00 (1 day TAT)		

#### Chain of Custody (COC)

i.

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	Comments/Resolution
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: $4^{\circ}C$		
Sample Container		
14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	
Field Label 20. Were field sample labels filled out with the minimum information: Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	
Sample Preservation		
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	
<u>Multiphase Sample Matrix</u>		
26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	
Subcontract Laboratory		
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA
<u>Client Instruction</u>		

Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405106

Job Number: 24015-0003

Received: 5/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/14/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405106 Date Received: 5/8/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/8/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com



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v		Sample Sum	mary		0
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number: 240			Keporteu.
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/14/24 13:51
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24 - 27 0-4FT	E405106-01A	Soil	05/06/24	05/08/24	Glass Jar, 4 oz.



	Sa	mple D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Number Project Manage	r: 2401	s SWD Lin 15-0003 nce Dixon	e			<b>Reported:</b> 5/14/2024 1:51:29PM
	WES	524 - 27 0-4	FT				
	J	E405106-01					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2419118
Benzene	ND	0.0250		1	05/08/24	05/12/24	
Ethylbenzene	ND	0.0250		1	05/08/24	05/12/24	
Toluene	ND	0.0250		1	05/08/24	05/12/24	
p-Xylene	ND	0.0250		1	05/08/24	05/12/24	
p,m-Xylene	ND	0.0500		1	05/08/24	05/12/24	
Total Xylenes	ND	0.0250		1	05/08/24	05/12/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/08/24	05/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/08/24	05/12/24	
Surrogate: Toluene-d8		104 %	70-130		05/08/24	05/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2419118
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/08/24	05/12/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/08/24	05/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/08/24	05/12/24	
Surrogate: Toluene-d8		104 %	70-130		05/08/24	05/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2419180
Diesel Range Organics (C10-C28)	ND	25.0		1	05/10/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/10/24	05/13/24	
Surrogate: n-Nonane		111 %	50-200		05/10/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420020
Chloride	552	20.0		1	05/13/24	05/14/24	



## QC Summary Data

Vertex Resource Services Inc.		Project Name:	Ze	eus SWD Line					Reported:
3101 Boyd Drive		Project Number:	24	015-0003					porteur
Carlsbad NM, 88220		Project Manager:	Ch	nance Dixon				5/	14/2024 1:51:29PM
,		Volatile Organic	Compos	unde hy FD	A 82601	2			
		volatile Ofganic	Compo		A 02001	)			Analyst: EG
Analyte	D14	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	mg/kg	mg/kg	Kec %	%	KFD %	%	Notes
					70	70	,,,	70	110105
Blank (2419118-BLK1)							Prepared: 03	5/08/24 Ana	yzed: 05/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2419118-BS1)							Prepared: 0	5/08/24 Ana	yzed: 05/12/24
Benzene	2.37	0.0250	2.50		94.8	70-130			<i></i>
	2.65		2.50		106	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.5	70-130			
Toluene		0.0250							
p-Xylene	2.67	0.0250	2.50		107	70-130			
o,m-Xylene	5.38	0.0500	5.00		108	70-130			
Fotal Xylenes	8.05	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494 0.527		0.500 0.500		98.8 105	70-130 70-130			
Surrogate: Toluene-d8	0.527		0.500		105	/0-150			
Matrix Spike (2419118-MS1)				Source: H			Prepared: 0:	5/08/24 Ana	yzed: 05/12/24
Benzene	2.40	0.0250	2.50	ND	96.1	48-131			
Ethylbenzene	2.67	0.0250	2.50	ND	107	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
p-Xylene	2.77	0.0250	2.50	ND	111	43-135			
p,m-Xylene	5.55	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.32	0.0250	7.50	ND	111	43-135			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike Dup (2419118-MSD1)				Source: I	2405104-	03	Prepared: 0:	5/08/24 Ana	yzed: 05/12/24
Benzene	2.43	0.0250	2.50	ND	97.0	48-131	0.994	23	-
Ethylbenzene	2.67	0.0250	2.50	ND	107	45-135	0.112	27	
Toluene	2.51	0.0250	2.50	ND	101	48-130	0.298	24	
p-Xylene	2.84	0.0250	2.50	ND	114	43-135	2.41	27	
	5.67		5.00	ND	114	43-135	2.41	27	
p,m-Xylene Total Xylenes	8.51	0.0500 0.0250	7.50	ND	113	43-135	2.09	27	
Surrogate: Bromofluorobenzene	0.531	0.0250	0.500		106	70-130	2.1.7		
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichoroennare-u4 Surrogate: Toluene-d8	0.488		0.500		103	70-130			
Nurrogata: Toluana-dX	0516		0.300						



## **QC Summary Data**

		QC DI		ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	eus SWD Line 4015-0003 hance Dixon					<b>Reported:</b> 5/14/2024 1:51:29PM
	No	onhalogenated O	rganics	by EPA 801	5D - GR	RO			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419118-BLK1)							Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2419118-BS2)							Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.9	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike (2419118-MS2)				Source: E	405104-0	3	Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			
Matrix Spike Dup (2419118-MSD2)				Source: E	405104-0	3	Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130	0.868	20	
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
			0.500		06.0	70 120			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			



## **QC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0003					Reported:
Carlsbad NM, 88220		Project Manager:		hance Dixon					5/14/2024 1:51:29PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419180-BLK1)							Prepared: 0	5/10/24 A	nalyzed: 05/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.5		50.0		115	50-200			
LCS (2419180-BS1)							Prepared: 0	5/10/24 A	analyzed: 05/13/24
Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	58.1		50.0		116	50-200			
LCS Dup (2419180-BSD1)							Prepared: 0	5/10/24 A	analyzed: 05/13/24
Diesel Range Organics (C10-C28)	330	25.0	250		132	38-132	0.882	20	
Surrogate: n-Nonane	58.0		50.0		116	50-200			



## **QC Summary Data**

		•		v					
Vertex Resource Services Inc.		Project Name:	Ze	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	015-0003					
Carlsbad NM, 88220		Project Manager:	: Cl	hance Dixon					5/14/2024 1:51:29PM
		Anions	by EPA 3	600.0/9056A	۸				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420020-BLK1)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Chloride	ND	20.0							
LCS (2420020-BS1)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Chloride	263	20.0	250		105	90-110			
LCS Dup (2420020-BSD1)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Chloride	263	20.0	250		105	90-110	0.108	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



_				
l	Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
l	3101 Boyd Drive	Project Number:	24015-0003	Reported:
l	Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/14/24 13:51

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Time Sampled	Date Sampled	Matrix	No. of Containers			- Sample ID	Field	Lab Numbe	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks				
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						arrangements are made. Hazardous sa													ne analysis o	f the above s	ampl			
						he liability of the laboratory is limited i																		

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Received by OCD: 6/4/2024 3:34:34 PM

#### **Envirotech Analytical Laboratory**

Printed: 5/8/2024 3:22:35PM

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envirotech Inc.

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Sample Receipt Checklist (SRC)

lient:	Vertex Resource Services Inc.	Date Received:	05/08/24 05	:00	Work Orde	r ID:	E405106
Phone:	(575) 748-0176	Date Logged In:	05/07/24 17	:34	Logged In	By:	Angelina Pineda
Email:	cdixon@vertex.ca	Due Date:	05/14/24 17	:00 (4 day TAT)			
Chain of	f Custody (COC)						
1. Does	the sample ID match the COC?		Ycs				
2. Does	the number of samples per sampling site location ma	atch the COC	Ycs				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disuess		Yes		Cor	nmen	ts/Resolution
Sample	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes		VOC by 8260 rem		
Sample	Cooler_				client request per t	ext r	nessage. Green copy
-	sample cooler received?		Yes		made with correcti	ons	
8. If yes,	, was cooler received in good condition?		Yes				
9. Was th	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling o visible ice, record the temperature. Actual sampl	re received w/i 15	Yes <u>°C</u>				
Sample	<u>Container</u>						
14. Are a	aqueous VOC samples present?		No				
15. Are	VOC samples collected in VOA Vials?		NA				
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct container		Yes				
19. Is the	e appropriate volume/weight or number of sample conta	iners collected?	Yes				
Field La							
	e field sample labels filled out with the minimum interview of the same second se	formation:	Yes				
	Sample ID? Date/Time Collected?		Yes				
-	Collectors name?		Yes				
Sample	Preservation						
21. Does	s the COC or field labels indicate the samples were	preserved?	No				
22. Are :	sample(s) correctly preserved?		NA				
24. Is la	b filteration required and/or requested for dissolved	metals?	No				
<u>Multiph</u>	ase Sample Matrix						
	s the sample have more than one phase, i.e., multiph	ase?	No				
27. If ye	s, does the COC specify which phase(s) is to be ana	lyzed?	NA				
Subcont	tract Laboratory_						
	samples required to get sent to a subcontract laborat	ory?	No				
	a subcontract laboratory specified by the client and	-	NA S	Subcontract Lab	: NA		
	Instruction						

Signature of client authorizing changes to the COC or sample disposition.

Date

Relea										Chain of	Cust	ody													Page of	1
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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405106

Job Number: 24015-0003

Received: 5/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/14/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405106 Date Received: 5/8/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/8/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

**Released to Imaging:** 7/11/2024 2:56:53 PM

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com





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Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0003		Reported.
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/14/24 13:51
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container



	Sa	mple D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Number Project Manage	r: 2401	s SWD Line 15-0003 nce Dixon	e			<b>Reported:</b> 5/14/2024 1:51:29PM
	WES	524 - 27 0-4	FT				
	J	E405106-01					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: EG			Batch: 2419118
Benzene	ND	0.0250	1	1	05/08/24	05/12/24	
Ethylbenzene	ND	0.0250	1	1	05/08/24	05/12/24	
Toluene	ND	0.0250	1	1	05/08/24	05/12/24	
p-Xylene	ND	0.0250	1	1	05/08/24	05/12/24	
p,m-Xylene	ND	0.0500	1	1	05/08/24	05/12/24	
Total Xylenes	ND	0.0250	1	1	05/08/24	05/12/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/08/24	05/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/08/24	05/12/24	
Surrogate: Toluene-d8		104 %	70-130		05/08/24	05/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst: EG			Batch: 2419118
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/08/24	05/12/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/08/24	05/12/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/08/24	05/12/24	
Surrogate: Toluene-d8		104 %	70-130		05/08/24	05/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM	[		Batch: 2419180
Diesel Range Organics (C10-C28)	ND	25.0	1	1	05/10/24	05/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	05/10/24	05/13/24	
Surrogate: n-Nonane		111 %	50-200		05/10/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY			Batch: 2420020
Chloride	552	20.0	1	1	05/13/24	05/14/24	



## QC Summary Data

Vertex Resource Services Inc.		Project Name:	Ze	us SWD Line					Reported:		
3101 Boyd Drive		Project Number:	24	015-0003					portou.		
Carlsbad NM, 88220		Project Manager:	Ch	ance Dixon				5/	14/2024 1:51:29PM		
,		Volatile Organic	Compos	unde by FD	A 82601	2					
		Analyst: EG									
Analyte	D14	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	Result mg/kg	mg/kg	mg/kg	mg/kg	Kec %	%	KFD %	%	Notes		
					70	70	,,,	70	10005		
Blank (2419118-BLK1)							Prepared: 0:	5/08/24 Ana	lyzed: 05/12/24		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130					
Surrogate: Toluene-d8	0.521		0.500		104	70-130					
LCS (2419118-BS1)							Prepared: 0	5/08/24 Ana	lyzed: 05/12/24		
Benzene	2.37	0.0250	2.50		94.8	70-130					
	2.65		2.50		106	70-130					
Ethylbenzene		0.0250									
Toluene	2.49	0.0250	2.50		99.5	70-130					
p-Xylene	2.67	0.0250	2.50		107	70-130					
o,m-Xylene	5.38	0.0500	5.00		108	70-130					
Fotal Xylenes	8.05	0.0250	7.50		107	70-130					
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.494 0.527		0.500 0.500		98.8 105	70-130 70-130					
Surrogate: Toluene-d8	0.527		0.500		105	70-150					
Matrix Spike (2419118-MS1)				Source: F			Prepared: 0:	5/08/24 Ana	lyzed: 05/12/24		
Benzene	2.40	0.0250	2.50	ND	96.1	48-131					
Ethylbenzene	2.67	0.0250	2.50	ND	107	45-135					
Toluene	2.52	0.0250	2.50	ND	101	48-130					
o-Xylene	2.77	0.0250	2.50	ND	111	43-135					
p,m-Xylene	5.55	0.0500	5.00	ND	111	43-135					
Total Xylenes	8.32	0.0250	7.50	ND	111	43-135					
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130					
Surrogate: Toluene-d8	0.525		0.500		105	70-130					
Matrix Spike Dup (2419118-MSD1)				Source: H	2405104-	03	Prepared: 0:	5/08/24 Ana	lyzed: 05/12/24		
Benzene	2.43	0.0250	2.50	ND	97.0	48-131	0.994	23	-		
Ethylbenzene	2.67	0.0250	2.50	ND	107	45-135	0.112	27			
Toluene	2.51	0.0250	2.50	ND	101	48-130	0.298	24			
p-Xylene	2.84	0.0250	2.50	ND	114	43-135	2.41	27			
	5.67		5.00	ND	114	43-135	2.41	27			
p,m-Xylene Total Xylenes	8.51	0.0500 0.0250	5.00 7.50	ND	113	43-135	2.09	27			
Surrogate: Bromofluorobenzene	0.531	0.0230	0.500		106	70-130	2.17				
Surrogate: 1,2-Dichloroethane-d4	0.331		0.500		97.6	70-130					
Surrogate: 1,2-Dichioroethane-a4 Surrogate: Toluene-d8	0.488		0.500		103	70-130					
	0516										



## **QC Summary Data**

				ii j Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	eus SWD Line 4015-0003 hance Dixon					<b>Reported:</b> 5/14/2024 1:51:29PM
	No	onhalogenated O	rganics	by EPA 801:			Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	iiig/kg	iiig/kg	mg/kg	шgжg	/0	/0	70	/0	Notes
Blank (2419118-BLK1)							Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2419118-BS2)							Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.9	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike (2419118-MS2)				Source: E	405104-0	03	Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			
Matrix Spike Dup (2419118-MSD2)				Source: E	405104-0	03	Prepared: 0	5/08/24	Analyzed: 05/12/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130	0.868	20	
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



## **QC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0003					Reported:
Carlsbad NM, 88220		Project Manager:		hance Dixon					5/14/2024 1:51:29PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419180-BLK1)							Prepared: 0	5/10/24 A	analyzed: 05/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	57.5		50.0		115	50-200			
LCS (2419180-BS1)							Prepared: 0	5/10/24 A	analyzed: 05/13/24
Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	58.1		50.0		116	50-200			
LCS Dup (2419180-BSD1)							Prepared: 0	5/10/24 A	analyzed: 05/13/24
Diesel Range Organics (C10-C28)	330	25.0	250		132	38-132	0.882	20	
Surrogate: n-Nonane	58.0		50.0		116	50-200			



## **QC Summary Data**

		-		v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0003					•
Carlsbad NM, 88220		Project Manager	: C	hance Dixon					5/14/2024 1:51:29PM
		Anions	by EPA 3	<b>300.0/9056</b> A	١				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420020-BLK1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	ND	20.0							
LCS (2420020-BS1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
hloride	263	20.0	250		105	90-110			
LCS Dup (2420020-BSD1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	263	20.0	250		105	90-110	0.108	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Γ	Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
l	3101 Boyd Drive	Project Number:	24015-0003	Reported:
	Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/14/24 13:51

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Client Information								,	-						-	Lab Use Only TAT							
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Project Manager: Chance Dixon     City, State, Zip:       Address: On file     Phone:       City, State, Zip:     Email:									-			An2	lucic	and N	loth	ho		-	ED	Program			
									-	1	1	Ana	iysis		letn		1		DWA		RCF		
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Email:	CDixon				-	scenarieous.			5	5								Co	mpliance	Y	or		
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				Sam	ple Informat	ion			DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals							
Time	Date Sampled	Matrix	No. of			Sample ID	Field	Lab	NOR	D/DR	Xby	by	oride	SOC	100	A 8 I			F	Remarks			
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, (field samp	oler), attest to the	e validity and	authenticity	of this sampl	e. I am aware th	at tampering with or intentionally mislabe	ling the san	nple locatio	n, date	or time	e of colle	ection	is cons	idered f	aud a	nd may	be grounds t	for legal	action.				
ampled by:	watt i ed by: (Signatur	ovacici.	Date		Time	Dessioned have (Classes and	IDate		Tim			1	1	Sampler	-	na thorm	Interenutio	n must h	a received or	ice the day th			
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	rix: <b>S</b> - Soil, <b>Sd</b> - S		E. C.										astic,	ag - ar	nber	glass,	- VOA						
						arrangements are made. Hazardous s						osed c	of at th	ne clien	expe	ense. Th	e report fo	or the a	nalysis of	the above s	ampl		
applicable	only to those sa	mples rece	ived by the	laboratory v	with this COC. T	he liability of the laboratory is limited	to the am	ount paid	for on	the rep	port.												

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Received by OCD: 6/4/2024 3:34:34 PM

#### **Envirotech Analytical Laboratory**

Printed: 5/8/2024 3:22:35PM

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Sample Receipt Checklist (SRC)

ient:	Vertex Resource Services Inc.	Date Received:	05/08/24 05	:00		Work Order ID:	E405106
hone:	(575) 748-0176	Date Logged In:	05/07/24 17	:34		Logged In By:	Angelina Pineda
Email:	cdixon@ventex.ca	Due Date:	05/14/24 17	:00 (4 day TAT)			
Chain of	f Custody (COC)						
	the sample ID match the COC?		Ycs				
	the number of samples per sampling site location mate	h the COC	Ycs				
3. Were	samples dropped off by client or carrier?		Ycs	Carrier: <u>C</u>	Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes			Commen	ts/Resolution
Sample	Turn Around Time (TAT)						00 A 1 1
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes				off Analysis per
Sample	Cooler				-	-	nessage. Green copy
	sample cooler received?		Yes		made with	corrections	
8. If yes,	, was cooler received in good condition?		Yes				
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling o visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	· · · · ·	temperature. <u>4</u>	<u> </u>				
	<u>Container</u> aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	e appropriate volume/weight or number of sample contain		Yes				
Field La	abel						
20. Were	e field sample labels filled out with the minimum info	rmation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name? Preservation_		Yes				
	s the COC or field labels indicate the samples were pr	eserved?	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved m	etals?	No				
	ase Sample Matrix		-				
	s the sample have more than one phase, i.e., multiphas	c?	No				
	s, does the COC specify which phase(s) is to be analy		NA				
•	tract Laboratory						
	samples required to get sent to a subcontract laborator	v?	No				
	a subcontract laboratory specified by the client and if	-		Subcontract Lab	• NA		
				autonidati Lau			

Signature of client authorizing changes to the COC or sample disposition.

Date

-

envirotech Inc.

Relea										Chain o	of Custo	ody													Pa	ge	of
eas		Clie	nt Inform	ation	200	2010		Invo	oice Ir	formation					La	b Us	e On	ly			1	TAT			S	tate	
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Pho	, State	e, Zip: U 575 98	8 1472			-	-	ail: cellaneous:					124											SDW	A CW	A RC	RA
	ail:	CDixon	a vert	ex.ca		-	IVIIS	cenaneous.						5	5									Compl	iance	Y or	N
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4 235	me opled	Date Sampled	Matrix	No. of Containers				Sample ID	Field	La Num	b ber	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by \$260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Rema	irks			
56.53 PM	90	as/06/24	Soil	1,402	WES	24-	27	Q-4 FT				1		1	1	/	1	7							1		
PM															1												
12																								VOC	removitext	ed by	clier
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I, (fie	ld samp	ler), attest to the Wターオイ	e validity and	authenticity	of this samp	le. I am a	ware tha	t tampering with o	or intent	tionally mislabe	ling the sam	ple loc	ation,	date o	r time	of coll	ection	is con	sidered	l fraud a	nd may	y be gro	ounds for	r legal acti	on.		
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	u	at W		5-	-7-24	099	15	Received by: (S Received by: (S	le l	Jongals	eg 5-	7-2	4	0	945	5			sample	d or reco	ived pa				ove 0 but less	than 6C on	- 31
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Reli	nquishe	ed by: (Signatur	e)	Date	the second s	Time	00	Received by: (S	Signatu	ure)	Date	and the first states	1	Time		-	C AN		AVC	Tem	°C	4				Ale da	
Sam	ple Mat	rix: <b>S</b> - Soil, <b>Sd</b> - S	olid, Sg - Slu	dge, A - Aque	eous, O - Othe	er 5	-			-	Con	tainer	Туре	: g - f	glass,	p - p	oly/p	lastic	, ag -	amber	glass	, v - V	TOA 3	T			
Not	e: Samp licable	oles are discard only to those sa	ed 14 days amples rece	after result eived by the	s are report laboratory	ed unless with this	s other COC. T	arrangements are he liability of the	e made labora	e. Hazardous s tory is limited	amples wil	ll be re	turne	d to c	lient o	or disp								the analy	sis of the a	bove sam	oles is
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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405122

Job Number: 24015-0001

Received: 5/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/10/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/10/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405122 Date Received: 5/9/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/9/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com



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*		Sample Sum	mary		·
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0001		Keporteu.
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/10/24 14:22
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-31	E405122-01A	Soil	05/07/24	05/09/24	Glass Jar, 2 oz.
WES24-32	E405122-02A	Soil	05/07/24	05/09/24	Glass Jar, 2 oz.
BES24-01	E405122-03A	Soil	05/07/24	05/09/24	Glass Jar, 2 oz.
WES24-36					



		Sample D	ata			
Vertex Resource Services Inc.	Project Nam	e: Zeus	s SWD Line			
3101 Boyd Drive	Project Num	ber: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Mana	ager: Cha	nce Dixon			5/10/2024 2:22:14PM
		WES24-31				
		E405122-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2419144
Benzene	ND	0.0250	1	05/09/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/09/24	05/09/24	
Toluene	ND	0.0250	1	05/09/24	05/09/24	
p-Xylene	ND	0.0250	1	05/09/24	05/09/24	
o,m-Xylene	ND	0.0500	1	05/09/24	05/09/24	
Fotal Xylenes	ND	0.0250	1	05/09/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2419144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2419145
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/24	05/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/09/24	05/09/24	
Surrogate: n-Nonane		111 %	50-200	05/09/24	05/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2419143
Chloride	1210	40.0	2	05/09/24	05/09/24	

## Sample Data

## Sample Data

	Da	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/10/2024 2:22:14PM
		WES24-32				
		E405122-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2419144
Benzene	ND	0.0250	1	05/09/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/09/24	05/09/24	
Toluene	ND	0.0250	1	05/09/24	05/09/24	
p-Xylene	ND	0.0250	1	05/09/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/09/24	05/09/24	
Fotal Xylenes	ND	0.0250	1	05/09/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2419144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2419145
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/24	05/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/24	05/09/24	
Surrogate: n-Nonane		110 %	50-200	05/09/24	05/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2419143
Chloride	511	20.0	1	05/09/24	05/09/24	

## Sample Data

	3	ample D	ลเล			
Vertex Resource Services Inc.	Project Name	Zeus	s SWD Line			
3101 Boyd Drive	Project Numb	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/10/2024 2:22:14PM
		BES24-01				
		E405122-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2419144
Benzene	ND	0.0250	1	05/09/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/09/24	05/09/24	
Toluene	ND	0.0250	1	05/09/24	05/09/24	
p-Xylene	ND	0.0250	1	05/09/24	05/09/24	
o,m-Xylene	ND	0.0500	1	05/09/24	05/09/24	
Fotal Xylenes	ND	0.0250	1	05/09/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2419144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2419145
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/24	05/09/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/09/24	05/09/24	
Surrogate: n-Nonane		93.4 %	50-200	05/09/24	05/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2419143
Chloride	4350	40.0	2	05/09/24	05/09/24	

## Sample Data

	Si	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/10/2024 2:22:14PM
		WES24-36				
		E405122-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2419144
Benzene	ND	0.0250	1	05/09/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/09/24	05/09/24	
Foluene	ND	0.0250	1	05/09/24	05/09/24	
p-Xylene	ND	0.0250	1	05/09/24	05/09/24	
o,m-Xylene	ND	0.0500	1	05/09/24	05/09/24	
Fotal Xylenes	ND	0.0250	1	05/09/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2419144
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	05/09/24	05/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2419145
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/24	05/10/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/09/24	05/10/24	
Surrogate: n-Nonane		101 %	50-200	05/09/24	05/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2419143
Chloride	1140	20.0	1	05/09/24	05/09/24	



## QC Summary Data

	Project Name:	Ze	eus SWD Line	;				<b>D</b> (1
								Reported:
	Project Number:	24	015-0001					
	Project Manager:	Cl	nance Dixon					5/10/2024 2:22:14PM
	Volatile O	rganics t	1B				Analyst: RKS	
	Reporting	Spike	Source		Rec		RPD	
Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/09/24 A	nalyzed: 05/09/24
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.21		8.00		90.1	70-130			
						Prepared: 0	5/09/24 A	nalyzed: 05/09/24
4.96	0.0250	5.00		99.2	70-130			
4.82	0.0250	5.00		96.3	70-130			
4.90	0.0250	5.00		98.0	70-130			
4.79	0.0250	5.00		95.8	70-130			
9.78	0.0500	10.0		97.8	70-130			
14.6	0.0250	15.0		97.1	70-130			
7.21		8.00		90.1	70-130			
			Source:	E405121-	02	Prepared: 0	5/09/24 A	nalyzed: 05/09/24
5.00	0.0250	5.00	ND	100	54-133			
4.86	0.0250	5.00	ND	97.1	61-133			
4.94	0.0250	5.00	ND	98.8	61-130			
4.84	0.0250	5.00	ND	96.8	63-131			
9.86	0.0500	10.0	ND	98.6	63-131			
14.7	0.0250	15.0	ND	98.0	63-131			
7.29		8.00		91.1	70-130			
			Source:	E405121-	02	Prepared: 0	5/09/24 A	nalyzed: 05/09/24
4.90	0.0250	5.00	ND	98.0	54-133	2.04	20	
4.80	0.0250	5.00	ND	96.1	61-133	1.12	20	
4.95	0.0250	5.00	ND	99.0	61-130	0.234	20	
4.81	0.0250	5.00	ND	96.2	63-131	0.601	20	
9.75	0.0500	10.0	ND	97.5	63-131	1.03	20	
14.6	0.0250	15.0	ND	97.1	63-131	0.891	20	
_	mg/kg ND ND ND ND ND ND 7.21 4.96 4.82 4.90 4.79 9.78 14.6 7.21 5.00 4.86 4.94 4.84 9.86 14.7 7.29 4.90 4.80 4.95 4.81 9.75	Result mg/kg         Reporting Limit mg/kg           ND         0.0250           7.21	Result mg/kg         Reporting Limit mg/kg         Spike Level mg/kg           ND         0.0250           S.00         5.00           4.96         0.0250         5.00           4.82         0.0250         5.00           4.90         0.0250         5.00           4.79         0.0250         5.00           4.82         0.0250         5.00           4.84         0.0250         5.00           4.86         0.0250         5.00           4.84         0.0250         5.00           4.84         0.0250         5.00           4.84         0.0250         5.00           4.80         0.0250         5.00           4.80         0.0250         5.00           4.80         0.0250	Result mg/kg         Reporting Limit mg/kg         Spike Level mg/kg         Source Result mg/kg           ND         0.0250         mg/kg         mg/kg           4.96         0.0250         5.00         mg/kg           4.90         0.0250         5.00         mg/kg           7.21         8.00         mg/kg         mg/kg           5.00         0.0250         5.00         ND           4.86         0.0250         5.00         ND           4.86         0.0250         5.00         ND           4.84         0.0250         5.00         ND           7.29	Result         Limit         Level         Result         Rec           mg/kg         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mD         0.0250           ND         0.0250         mD         0.0250           ND         0.0250         mD         0.0250           ND         0.0250         mD         0.0250           ND         0.0250         5.00         90.1           4.96         0.0250         5.00         96.3           4.90         0.0250         5.00         95.8           9.78         0.0500         10.0         97.8           14.6         0.0250         5.00         ND         90.1           Source: E405121-1           5.00         0.0250         5.00         ND         90.1           2.21         8.00         90.1         100           4.86         0.0250         5.00         ND         97.1           4.94         0.0250         5.00         ND         98.8           4.84         0.0250         5.00         ND	Result mg/kg         Reporting Limit mg/kg         Spike Level mg/kg         Source Result mg/kg         Rec Rec %         Rec Limits mg/kg         Rec %           ND         0.0250         mg/kg         %         %           ND         0.0250         %         %           ND         0.0250         %         %           ND         0.0250         %         %           ND         0.0250         %         %           7.21         8.00         90.1         70-130           4.96         0.0250         5.00         96.3         70-130           4.96         0.0250         5.00         95.8         70-130           4.97         0.0250         5.00         95.8         70-130           4.98         0.0250         5.00         90.1         70-130           9.78         0.0500         10.0         97.8         70-130           7.21         8.00         90.1         70-130           7.21         8.00         90.1         70-130           7.21         8.00         90.1         70-130           7.21         8.00         90.1         70-130           7.21         8.00         <	Result mg/kg         Reporting Limit mg/kg         Spike mg/kg         Source Result mg/kg         Rec Result mg/kg         Rec %         Rec Limits %         RPD %           ND         0.0250         mg/kg         %         %         %         %           ND         0.0250         mg/kg         %         %         %         %           ND         0.0250         nD         90.1         70-130         %         %           ND         0.0250         5.00         99.2         70-130         %         %         %           4.82         0.0250         5.00         96.3         70-130         %         <	Result mg/kg         Reporting Limit mg/kg         Spike Level mg/kg         Source Result mg/kg         Rec %         Limit mints         RPD %         RPD %         RPD %           ND         0.0250         mg/kg         % </td



## **QC Summary Data**

		QC D	u	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 4015-0001 Chance Dixon					<b>Reported:</b> 5/10/2024 2:22:14PM
	Noi	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2419144-BLK1)							Prepared: 0	5/09/24 A	Analyzed: 05/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			
LCS (2419144-BS2)							Prepared: 0	5/09/24 A	Analyzed: 05/09/24
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike (2419144-MS2)				Source: E	405121-	02	Prepared: 0	5/09/24 A	Analyzed: 05/09/24
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			
Matrix Spike Dup (2419144-MSD2)				Source: E	405121-	02	Prepared: 0	5/09/24 A	Analyzed: 05/09/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	2.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
arogule. 1-Chioro-4-juorobenzene-171D	7.15		0.00		07.4	70 150			



## **OC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0001					Reported:
Carlsbad NM, 88220		Project Manager:		hance Dixon					5/10/2024 2:22:14PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419145-BLK1)							Prepared: 0	5/09/24 A	analyzed: 05/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.3		50.0		109	50-200			
LCS (2419145-BS1)							Prepared: 0	5/09/24 A	analyzed: 05/09/24
Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			
LCS Dup (2419145-BSD1)							Prepared: 0	5/09/24 A	analyzed: 05/09/24
Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132	3.61	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



## **QC Summary Data**

		-		v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	9				Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					•
Carlsbad NM, 88220		Project Manager	: C	hance Dixon					5/10/2024 2:22:14PM
		Anions	by EPA 3	300.0/90564	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419143-BLK1)							Prepared: 0:	5/08/24	Analyzed: 05/08/24
Chloride	ND	20.0							
LCS (2419143-BS1)							Prepared: 0:	5/08/24	Analyzed: 05/08/24
hloride	254	20.0	250		102	90-110			
LCS Dup (2419143-BSD1)							Prepared: 0	5/08/24	Analyzed: 05/08/24
Chloride	254	20.0	250		101	90-110	0.0607	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	_ ••-		
Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/10/24 14:22

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

		Custody		-							_	1000	1			of
Client Information	Invoice Information		1			ab Us						TAT			State	
Client: D. VOITEX (TAPROCK) Project Name: ZEWS SWD Line						td	NM CO	TUUC	X							
Project Manager: Charle D; X 02	Address: Ont ile City, State, Zip:		E	10:	214	-	24	015	- 00		~	1 4		*		_
Address: 00 fi (0	Phone:			-			Ana	lycic	and I	Vieth	bod		1	FPA	Program	
City, State, Zip:	Email:							19313		VICLI			SD			RCRA
Phone: 575 988 1472	Miscellaneous:															
Email: CD 1x00 QUEITEX.CA				15	15								Com	pliance	Y O	or I
		-		by 80	by 80	51	-	0.00	Σ	¥	tals		PWS	SID #		
	nformation	<u><u> </u></u>	- 1-	ORO	DRO	by 80	y 82	de 3(	C-N	- 500	8 Me					
Time Date Sampled Matrix No. of Containers	Sample ID	Field Filter nn	ab nber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 820	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		_	Re	emarks	
12:05 05/07/24 Soil 404 561 WES24-	-31	×	1	1	1	1	B	1								
12:05 05/07/24 / WES 24.	- 32	-	2	1	1	1	C	1								
			3				4	1								
14:00 05/07/27 BES 24-0 13:00 05/07/21 W WES 24-				1	V		4	1								
13:00 05/07/21 WES 24-	-34		4	V		V	The	J		-						_
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dditional Instructions: Picase CC wwadi	eish DURGARY (G			I						_						
(field sampler), attest to the validity and authenticity of this sample. I an	aware that tampering with or intentionally mislabeling	g the sample loo	cation,	date o	r time	of colle	ection	is cons	idered	fraud	and may b	e grounds f	or legal ac	tion.		
ampled by: <u>Whatt Wadleish</u> elinquished by: (Signature) Date Time	Described for (Circustore)	lo-t-	-	Time	_		-	- 1	Famulas					and the second		
with W- OSTOBLEY 10	us Vichele Jonander	S.S.	24	Time	04	5									ce the day the less than 6C o	
lelinquished by (Signature) Date	Received by: (Signature)	Date	~1	Time	07.	5		6	cubcoqu	ont day	15	Lab	Use On	lv		
relinquished by (Signature) Date 5-8-24	45 Received by: (Signature) 45 Received by: (Signature) 800 Received by: (Signature) Received by: (Signature)	5.8.	24	11	80	0			Recei	ved	on ice:	(V)				
Relinquished by: (Signature) Date Time				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								-				
	345 high & Hell	5-9-2	24	0	50	0			T1			<u>T2</u>	_	<u>T3</u>	-	
telinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time				-	AVG	Tem	p°C	4				
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container						astic,	ag - a	mber	glass, v					
Note: Samples are discarded 14 days after results are reported unle applicable only to those samples received by the laboratory with the second second second second second second s	ess other arrangements are made. Hazardous sam	ples will be re	eturne	d to c	lient o	or disp	osed c	of at th	ne clier	t exp	ense. Th	e report fo	r the ana	lysis of th	e above sar	mples
applicable only to those samples received by the laboratory with th	is coc. The hability of the laboratory is limited to	the amount p	aid to	r on th	ie rep	ort.										

Released to Imaging: 7/11/2024 2:56:53 PM

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#### **Envirotech Analytical Laboratory**

Printed: 5/9/2024 10:19:41AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks. the nonce concerning these tiens within 24 hours of the date of this notice, all the samples will be analyzed as requested.

II we receive	no response concerning these nears within	24 Bours of the date of this not	ce, an the samples will be analyzed a		
Client:	Vertex Resource Services Inc.	Date Received:	05/09/24 05:00	Work Order ID:	E405122
Phone:	(575) 748-0176	Date Logged In:	05/08/24 15:09	Logged In By:	Alexa Michaels
Email:	cdixon@vertex.ca	Due Date:	05/10/24 17:00 (1 day TAT)		

#### Chain of Custody (COC)

1

1. Does the sample ID match the COC?	Ycs	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: <u>Courier</u>
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	Comments/Resolution
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: $\underline{4^{\circ}C}$		
Sample Container		
14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Ycs	
Field Label		
20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected? Collectors name?	Yes Yes	
Sample Preservation	105	
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	
Multiphase Sample Matrix		
26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	
Subcontract Laboratory		
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA
<u>Client Instruction</u>		

Date

## envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405134

Job Number: 24015-0001

Received: 5/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/13/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/13/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405134 Date Received: 5/10/2024 5:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2024 5:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com





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Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Sample Sum		0	
		Project Name:	Zeus SWD Line		Reported:
		Project Number:	24015-0001		-
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/13/24 17:19
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-39	E405134-01A	Soil	05/07/24	05/10/24	Glass Jar, 2 oz.



	Sa	imple D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon	5/13/2024 5:19:54PM		
	,	WES24-39				
	1	E405134-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2419171
Benzene	ND	0.0250	1	05/10/24	05/11/24	
Ethylbenzene	ND	0.0250	1	05/10/24	05/11/24	
Toluene	ND	0.0250	1	05/10/24	05/11/24	
p-Xylene	ND	0.0250	1	05/10/24	05/11/24	
o,m-Xylene	ND	0.0500	1	05/10/24	05/11/24	
Total Xylenes	ND	0.0250	1	05/10/24	05/11/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	05/10/24	05/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2419171
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/24	05/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/10/24	05/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2419173
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/10/24	05/13/24	
Surrogate: n-Nonane		104 %	50-200	05/10/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2420002
Chloride	930	20.0	1	05/13/24	05/13/24	

# Sample Data



## QC Summary Data

		<b>C</b>		ary Dun	-				
Vertex Resource Services Inc.		Project Name:		Leus SWD Line					Reported:
3101 Boyd Drive		Project Number:	2	4015-0001					
Carlsbad NM, 88220		Project Manager:	C	Chance Dixon					5/13/2024 5:19:54PM
		Volatile O	by EPA 802	1B				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419171-BLK1)							Prepared: 0	5/10/24 A	nalyzed: 05/10/24
Benzene	ND	0.0250					-		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.7	70-130			
LCS (2419171-BS1)							Prepared: 0	5/10/24 A	nalyzed: 05/10/24
Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
p-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			
Matrix Spike (2419171-MS1)				Source:	E405125-	22	Prepared: 0	5/10/24 A	nalyzed: 05/10/24
Benzene	4.86	0.0250	5.00	ND	97.2	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.89	0.0250	5.00	ND	97.7	61-130			
p-Xylene	4.84	0.0250	5.00	ND	96.8	63-131			
o,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			
Matrix Spike Dup (2419171-MSD1)				Source:	E405125-	22	Prepared: 0	5/10/24 A	nalyzed: 05/10/24
Benzene	4.99	0.0250	5.00	ND	99.8	54-133	2.65	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	2.59	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	2.66	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	2.68	20	
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131	2.66	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131	2.67	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			



## **QC Summary Data**

		QC D	umme	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	eus SWD Line 1015-0001 hance Dixon					<b>Reported:</b> 5/13/2024 5:19:54PM
Caliboau NMI, 88220	Noi	nhalogenated (			5D - GI	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419171-BLK1)							Prepared: 0	5/10/24 A	Analyzed: 05/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.88		8.00		111	70-130			
LCS (2419171-BS2)							Prepared: 0	5/10/24 A	Analyzed: 05/10/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.84		8.00		111	70-130			
Matrix Spike (2419171-MS2)				Source: E	405125-2	22	Prepared: 0	5/10/24 A	Analyzed: 05/10/24
Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			
Matrix Spike Dup (2419171-MSD2)				Source: E	405125-2	22	Prepared: 0	5/10/24 A	Analyzed: 05/11/24
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00						



## **QC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0001					Reported:
Carlsbad NM, 88220		Project Manager:		hance Dixon					5/13/2024 5:19:54PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2419173-BLK1)							Prepared: 0	5/10/24 A	Analyzed: 05/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.5		50.0		107	50-200			
LCS (2419173-BS1)							Prepared: 0	5/10/24 A	Analyzed: 05/12/24
Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			
LCS Dup (2419173-BSD1)							Prepared: 0	5/10/24 A	Analyzed: 05/12/24
Diesel Range Organics (C10-C28)	323	25.0	250		129	38-132	1.24	20	
Surrogate: n-Nonane	56.6		50.0		113	50-200			
	20.0				-				



## **QC Summary Data**

		-		v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					•
Carlsbad NM, 88220		Project Manager	: C	hance Dixon					5/13/2024 5:19:54PM
		Anions	by EPA 3	300.0/90564	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420002-BLK1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	ND	20.0							
LCS (2420002-BS1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
hloride	250	20.0	250		99.9	90-110			
LCS Dup (2420002-BSD1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	249	20.0	250		99.6	90-110	0.293	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	_ ••-		
Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/13/24 17:19

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

and the second se	lient Infor	mation		6	Invoice Information				1	ab Us	se On	ily			TAT			State
ent: Vertex oject Name: 2 e oject Manager: 0 dress: 0	cTapro ns sh chance	CR) Do Lin DiXe	e 0	_   A	ompany: Tapacca ddress: Cofile City, State, Zip:		L	ab W E <b>4</b> C	3513	34	Job I	Num DIS	- 000	1	D 2D 3D	Std		COUT T
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y, State, Zip: J one: 575 1	68 14	72			nail: 4												SDWA	CWA R
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	-	1	Sam	ple Informat	ion				DRO F	oy 80.	y 826	de 30	C - NI	- 500				
Time Date Sampl	ed Matrix	No. of Containers			Sample ID	Field	Lab Numt	ber d	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX				emarks
45 05/071	zy soil	4.0 2	00	UES 24-3	9		1	V	1	1		1						
	-		-						-	-				+	+			
-	-		-							-								
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npled by:	ntt wa								Concerned and		sectors.			Correct In			No. or or other the	
inquished by: (Signa 仏奴がん、	ture)	Date	109/24	Time 9:27	Referred by: (Signature)	og S	-9-2	4 Tir	1092	7			Sec. March 1		thermal preserve ed packed in ice a	it an avg te	emp above 0 bi	
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inquished by: (Signa	ture)	Date		Time	Received by: (Signature)	Date			me				AVG T	emp	°c 4			
nple Matrix: S - Soil, So												lastic,	ag - ar	nber (	lass, v - VOA		5	
	and the second second				arrangements are made. Hazardous s he liability of the laboratory is limited	Contraction of the second second				100 C	osed o	of at t	he clien	expe	se. The repor	t for the	analysis of	he above san

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Received by OCD: 6/4/2024 3:34:34 PM
# **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Vertex Resource Services Inc. D	ate Received:	05/10/24 05:0	00	Work Order ID:	E405134
Phone:	(575) 748-0176 D	ate Logged In:	05/09/24 13::	53	Logged In By:	Alexa Michaels
Email:		ue Date:	05/13/24 17:	00 (1 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were a	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample '	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
	sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
2	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re		Yes			
	minutes of sampling					
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4</u> °	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are V	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are r	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	<u>bel</u>					
20. Were	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
Ι			Yes			
I C	Collectors name?					
I ( <u>Sample</u> ]	Preservation	erved?	No			
I C <u>Sample</u> 21. Does	<u>Preservation</u> s the COC or field labels indicate the samples were prese	erved?	No Na			
[ [ [ [ [] [] [] [] [] [] [] [] [] [] []	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved?		NA			
[ Sample ] 21. Does 22. Are s 24. Is lab	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta					
Sample 2 21. Does 22. Are s 24. Is lab Multiph	<u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta ase Sample Matrix	lls?	NA No			
Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta tase Sample Matrix s the sample have more than one phase, i.e., multiphase?	ıls?	NA No No			
I           Sample 1           21. Does           22. Are s           24. Is lab           Multiph           26. Does           27. If yes	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyze	ıls?	NA No			
If           Sample           21. Does           22. Are s           24. Is lab           Multiph           26. Does           27. If yes           Subcont	<b>Preservation</b> is the COC or field labels indicate the samples were presessample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>ase Sample Matrix</b> is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyze <b>tract Laboratory</b> .	ıls? d?	NA No NA			
If           21. Does           22. Are s           24. Is lab           Multiph           26. Does           27. If yes           Subcont           28. Are s	<b>Preservation</b> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <b>tase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyze	ıls? d?	NA No NA No	ıbcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405156

Job Number: 24015-0003

Received: 5/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/14/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405156 Date Received: 5/13/2024 6:15:00AM

Chance Dixon,



**Page 255 of 39**7

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2024 6:15:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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*		Sample Sum	mary		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number: 24015-0003			
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/14/24 13:44
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24 - 40	E405156-01A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.
WES24 - 41	E405156-02A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.
WES24 - 42	E405156-03A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.
WES24 - 43	E405156-04A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.



	Da	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003		Reported:	
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	١	WES24 - 40				
		E405156-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	/kg Analyst: EG			Batch: 2420003
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
Toluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
o,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Fotal Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		105 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2420002
Chloride	ND	20.0	1	05/13/24	05/13/24	





roject Name	: Zeus	s SWD Lin	e			
roject Numb	er: 2401	15-0003				Reported:
roject Manag	ger: Cha	nce Dixon				5/14/2024 1:44:53PM
,	WES24 - 41					
	E405156-02					
	Reporting					
Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg	g/kg Analyst: EG			Batch: 2420003	
ND	0.0250		1	05/13/24	05/13/24	
ND	0.0250		1	05/13/24	05/13/24	
ND	0.0250		1	05/13/24	05/13/24	
ND	0.0250		1	05/13/24	05/13/24	
ND	0.0500		1	05/13/24	05/13/24	
ND	0.0250		1	05/13/24	05/13/24	
	90.7 %	70-130		05/13/24	05/13/24	
mg/kg	mg/kg		Analyst:	: EG		Batch: 2420003
ND	20.0		1	05/13/24	05/13/24	
	95.1 %	70-130		05/13/24	05/13/24	
mg/kg	mg/kg		Analyst	: KM		Batch: 2420001
ND	25.0		1	05/13/24	05/13/24	
ND	50.0		1	05/13/24	05/13/24	
	107 %	50-200		05/13/24	05/13/24	
mg/kg	mg/kg		Analyst	: JM		Batch: 2420002
ND	20.0		1	05/13/24	05/13/24	
	Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND MD MD MD MD mg/kg ND ND mg/kg	roject Number: 240. roject Manager: Cha WES24 - 41 E405156-02 Reporting Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 MD 20.0 MD 20.0 MD 25.0 ND 50.0 ND 50.0	Z4015-0003 Chance Dixon           roject Number: 24015-0003 Chance Dixon           WES24 - 41 E405156-02           Reporting Result           Limit         Dilu           mg/kg         mg/kg           ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         70-130           mg/kg         mg/kg         Mg/kg           ND         20.0         70-130           mg/kg         mg/kg         Mg/kg           ND         25.0         70-130           mg/kg         mg/kg         50.0           IOT %         50-200           mg/kg         mg/kg	24015-0003           roject Number:         24015-0003           Chance Dixon           WES24 - 41           E405156-02           Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analyst           ND         0.0250         1           ND         20.0         1           90.7 %         70-130         1           mg/kg         mg/kg         Analyst           ND         25.0         1           ND         50.0         1           ND         50.0         1           ND         50.200	roject Number: 24015-0003 roject Manager: Chance Dixon WES24 - 41 E405156-02 Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 05/13/24 ND 0.0250 1 05/13/24 MD 0.0250 1 05/13/24 MD 0.0250 1 05/13/24 ND 0.0250 1 05/13/24 MD 20.0 1 05/13/24 MD 20.0 1 05/13/24 MD 20.0 1 05/13/24 MD 20.0 1 05/13/24 MD 25.0 1 05/13/24 MD 50.0 1 05/13/24 MD 50.1 05/13/24 MD 50.0 1 05/13/24 MD 50/13/24 MD 50/13/24 MD 50/13/24 MD 50/13/24 MD 50/13/24 MD 50/13/24	roject Number: 24015-0003 roject Manager: Chance Dixon WES24 - 41 E405156-02 Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 05/13/24 05/13/24 ND 0.0250 1 05/13/24 05/13/24 MD 20.0 1 05/13/24 05/13/24 MD 20.0 1 05/13/24 05/13/24 MD 25.0 1 05/13/24 05/13/24 MD 50.0 1 05/13/24 05/13/24 MD 50/13/24 MD 50/13/24



	Sa	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	V	VES24 - 42				
	]	E405156-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	/kg Analyst: EG			Batch: 2420003
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
Foluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
o,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Fotal Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		103 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: JM		Batch: 2420002
Chloride	2700	40.0	2	05/13/24	05/13/24	



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	V	VES24 - 43				
	]	E405156-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	mg/kg Analyst: EG			Batch: 2420003
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
foluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
o,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Total Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		108 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: JM		Batch: 2420002
Chloride	ND	20.0	1	05/13/24	05/13/24	



# QC Summary Data

		QU DI		ny Duu					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 4015-0003	;				Reported:
Carlsbad NM, 88220		Project Manager:	Cl	hance Dixon					5/14/2024 1:44:53PM
		Volatile O	rganics <b>k</b>	oy EPA 802	1 <b>B</b>				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420003-BLK1)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.7	70-130			
LCS (2420003-BS1)	Prepared: 05/13/24						5/13/24 A	analyzed: 05/13/24	
Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.82	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.2	70-130			
Matrix Spike (2420003-MS1)				Source:	E405156-	02	Prepared: 0	5/13/24 A	analyzed: 05/13/24
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.86	0.0250	5.00	ND	97.3	61-133			
Toluene	4.95	0.0250	5.00	ND	99.0	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.8	63-131			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			
Matrix Spike Dup (2420003-MSD1)				Source:	E405156-	02	Prepared: 0	5/13/24 A	analyzed: 05/13/24
Benzene	5.06	0.0250	5.00	ND	101	54-133	0.645	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.01	20	
Toluene	5.00	0.0250	5.00	ND	99.9	61-130	0.871	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	0.990	20	
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131	0.995	20	
	14.9	0.0250	15.0	ND	00.1	63-131	0.993	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.1	03-131	0.995	20	



# **QC Summary Data**

		QC D	umm	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 24015-0003 Chance Dixon					<b>Reported:</b> 5/14/2024 1:44:53PM
	No	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2420003-BLK1)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Gasoline Range Organics (C6-C10)	ND	20.0					1		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2420003-BS2)							Prepared: 0	5/13/24 A	analyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130			-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			
Matrix Spike (2420003-MS2)				Source: E	405156-	02	Prepared: 0	5/13/24 A	analyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			
Matrix Spike Dup (2420003-MSD2)				Source: E	405156-	02	Prepared: 0	5/13/24 A	analyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	0.648	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			



# **QC Summary Data**

		QC D	umma	iry Data	•				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 015-0003					Reported:
Carlsbad NM, 88220		Project Manager:		nance Dixon					5/14/2024 1:44:53PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420001-BLK1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.7		50.0		113	50-200			
LCS (2420001-BS1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
'urrogate: n-Nonane	56.5		50.0		113	50-200			
LCS Dup (2420001-BSD1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	0.686	20	
urrogate: n-Nonane	56.5								



# **QC Summary Data**

				v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0003					•
Carlsbad NM, 88220		Project Manager	: C	hance Dixon					5/14/2024 1:44:53PM
		Anions	by EPA	300.0/90564	١				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420002-BLK1)							Prepared: 0	5/13/24 /	Analyzed: 05/13/24
Chloride	ND	20.0							
LCS (2420002-BS1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
hloride	250	20.0	250		99.9	90-110			
LCS Dup (2420002-BSD1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	249	20.0	250		99.6	90-110	0.293	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0003	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/14/24 13:44

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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								Chain of	Cust	ody												Page _	of _
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample I	D		Field	Lab Numbe	DRO/ORO	GRO/DRO by 1	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
2.00	5/09/24	50:1	1	WESZY	- 40					١	V	V	V		<b>v</b>								
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(field sample ampled by:	er), attest to the	e validity and れナル	authenticity	of this sample	. I am aware	that tampering v	with or intentio	onally mislabeling t	the sam	ple locatio	n, date (	or time	of col	lection	is con	sidered	fraud a	nd may	be grou	nds for la	egal action.		
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Note: Sampl								Hazardous samp bry is limited to th						osed o	of at t	he cliei	nt expe	nse. Th	e repo	rt for th	e analysis c	of the above	e samples is

# **Envirotech Analytical Laboratory**

Client:	Vertex Resource Services Inc.	Date Received:	05/13/24	06:15		Work Order ID:	E405156
Phone:	(575) 748-0176	Date Logged In:	05/10/24	14:15		Logged In By:	Angelina Pineda
Email:	cdixon@vertex.ca I	Due Date:	05/14/24	17:00 (1 day T	'AT)		
Chain of	f Custody (COC)						
1. Does t	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	n the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carri	er: <u>Courier</u>		
4. Was tł	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion		Yes			<u>Commen</u>	ts/Resolution
Sample '	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	_						
_	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r minutes of sampling	eceived w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample te	emperature: <u>4</u> °	<u>C</u>				
-	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?	11 . 10	Yes				
	appropriate volume/weight or number of sample container	rs collected?	Yes				
Field La		nation					
	field sample labels filled out with the minimum inforr Sample ID?	nation.	Yes				
	Date/Time Collected?		Yes				
(	Collectors name?		Yes				
_	Preservation						
	the COC or field labels indicate the samples were pres	served?	No				
	sample(s) correctly preserved?	1.0	NA				
	o filteration required and/or requested for dissolved met	tais?	No				
-	ase Sample Matrix	-					
	the sample have more than one phase, i.e., multiphase		No				
27. If yes	s, does the COC specify which phase(s) is to be analyze	ed?	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laboratory		No				
29. Was	a subcontract laboratory specified by the client and if s	o who?	NA	Subcontract	Lab. NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405166

Job Number: 24015-0003

Received: 5/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/16/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/16/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405166 Date Received: 5/14/2024 6:00:00AM

Chance Dixon,



Page 270 of 397

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/14/2024 6:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### Sample Summary

		Sample Sum	mai y		
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	Zeus SWD Line 24015-0003 Chance Dixon		<b>Reported:</b> 05/16/24 14:12
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES 24 -44 4ft	E405166-01A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -45 4ft	E405166-02A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -46 4ft	E405166-03A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -47 4ft	E405166-04A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -48 4ft	E405166-05A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -49 4ft	E405166-06A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -50 4ft	E405166-07A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 -51 4ft	E405166-08A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
WES 24 - 52 4FT	E405166-09A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 03 4FT	E405166-10A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 04 4FT	E405166-11A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 05 4FT	E405166-12A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 06 4FT	E405166-13A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 07 4FT	E405166-14A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 08 4FT	E405166-15A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 09 4FT	E405166-16A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 10 4FT	E405166-17A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
BES 24 - 11 4FT	E405166-18A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.



	58	imple D	ลเล			
Vertex Resource Services Inc. 3101 Boyd Drive	Project Name: Project Number		SWD Line 5-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -44 4f	t			
	]	E405166-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
urrogate: 4-Bromochlorobenzene-PID	1	93.2 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/14/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/14/24	
Surrogate: n-Nonane		103 %	50-200	05/14/24	05/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420062
Chloride	242	20.0	1	05/14/24	05/14/24	



29	imple D	ลเล			
Project Name:					
5					Reported:
Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
W	ES 24 -45 4f	ť			
I	E405166-02				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2420036
ND	0.0250	1	05/14/24	05/15/24	
ND	0.0250	1	05/14/24	05/15/24	
ND	0.0250	1	05/14/24	05/15/24	
ND	0.0250	1	05/14/24	05/15/24	
ND	0.0500	1	05/14/24	05/15/24	
ND	0.0250	1	05/14/24	05/15/24	
!	93.2 %	70-130	05/14/24	05/15/24	
mg/kg	mg/kg	Anal	vst: BA		Batch: 2420036
ND	20.0	1	05/14/24	05/15/24	
	108 %	70-130	05/14/24	05/15/24	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2420049
ND	25.0	1	05/14/24	05/14/24	
ND	50.0	1	05/14/24	05/14/24	
	91.2 %	50-200	05/14/24	05/14/24	
mg/kg	mg/kg	Anal	vst: IY		Batch: 2420062
577	20.0	1	05/14/24	05/14/24	
	Project Name: Project Number Project Manage Wl NU ND ND ND ND ND ND ND ND ND ND ND ND ND	K           Project Name:         Zeus           Project Number:         2401           Project Manager:         Char           WES 24 -45 4f           Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           108 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           91.2 %         mg/kg	Project Number:       24015-0003         Project Manager:       Chance Dixon         WES 24 -45 4ft         E405166-02         Reporting         Result       Limit       Dilution         mg/kg       mg/kg       Analy         ND       0.0250       1         MD       20.0       1         MD       20.0       1         MD       20.0       1         MD       25.0       1         ND       25.0       1         ND       50.0       1         ND       50.0       1         ND	Image         Image <th< td=""><td>Image in the second sec</td></th<>	Image in the second sec



	Si	ample D	ลเล				
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line				
3101 Boyd Drive	Project Number: 24015-0003						
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 2:12:15PM	
	W	ES 24 -46 4f	Ìt				
	-	E405166-03					
		Reporting					
Analyte	Result	Limit	Dilutior	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420036	
Benzene	ND	0.0250	1	05/14/24	05/15/24		
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24		
Toluene	ND	0.0250	1	05/14/24	05/15/24		
p-Xylene	ND	0.0250	1	05/14/24	05/15/24		
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24		
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24		
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	05/14/24	05/15/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	05/14/24	05/15/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2420049	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/14/24		
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/14/24		
Surrogate: n-Nonane		92.3 %	50-200	05/14/24	05/14/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2420062	
Chloride	358	20.0	1	05/14/24	05/14/24		



	25	imple D	ata			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -47 4f	ït			
	]	E405166-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/14/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/14/24	
Surrogate: n-Nonane		94.2 %	50-200	05/14/24	05/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2420062
Chloride	1610	20.0	1	05/14/24	05/14/24	



	50	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -48 41	ť			
		E405166-05				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Foluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/14/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/14/24	
Surrogate: n-Nonane		93.5 %	50-200	05/14/24	05/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2420062
Chloride	ND	20.0	1	05/14/24	05/14/24	



	56	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	5-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -49 4f	ť			
	]	E405166-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2420049	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		94.1 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: IY		Batch: 2420062
Chloride	ND	20.0	1	05/14/24	05/14/24	



	56	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003	Reported:		
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -50 4f	ť			
	-	E405166-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Foluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RAS		Batch: 2420036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: KM		Batch: 2420049	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		94.1 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2420062
Chloride	64.8	20.0	1	05/14/24	05/14/24	



	25	imple D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	W	ES 24 -51 4f	ït			
	]	E405166-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: RAS		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		93.8 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	ND	20.0	1	05/14/24	05/14/24	

	29	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Number	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	WE	S 24 - 52 4F	Т			
	1	E405166-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
thylbenzene	ND	0.0250	1	05/14/24	05/15/24	
oluene	ND	0.0250	1	05/14/24	05/15/24	
-Xylene	ND	0.0250	1	05/14/24	05/15/24	
,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
otal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
urrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
urrogate: n-Nonane		93.5 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	178	20.0	1	05/14/24	05/14/24	



	Da	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Number	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 03 4F	Т			
	1	E405166-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Foluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		91.6 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420062
Chloride	1610	20.0	1	05/14/24	05/14/24	



	52	ample D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 04 4F	Т			
	-	E405166-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		88.5 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	1750	40.0	2	05/14/24	05/14/24	



	58	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 05 4F	Т			
	]	E405166-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		92.6 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	1750	40.0	2	05/14/24	05/14/24	



	52	ample D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 06 4F	Т			
	-	E405166-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		92.4 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	1580	40.0	2	05/14/24	05/14/24	



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Number	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	BES	S 24 - 07 4F	Т			
	]	E405166-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID	!	93.7 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	!	96.4 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		93.3 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420062
Chloride	1990	40.0	2	05/14/24	05/15/24	



	58	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 08 4F	Т			
	1	E405166-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		92.6 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420062
Chloride	1420	20.0	1	05/14/24	05/15/24	


	25	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003		Reported:	
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 2:12:15PM
	BE	S 24 - 09 4F	Т			
	]	E405166-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		93.0 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2420062
Chloride	3970	40.0	2	05/14/24	05/15/24	



	Sa	ample D	ata			
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 240	SWD Line 5-0003 nce Dixon			<b>Reported:</b> 5/16/2024 2:12:15PM
	BE	CS 24 - 10 4F	Т			
		E405166-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2420036
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
p-Xylene	ND	0.0250	1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KM		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/15/24	
Surrogate: n-Nonane		95.0 %	50-200	05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2420062
Chloride	3120	40.0	2	05/14/24	05/15/24	

	S	Sample D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name Project Num Project Mana	ber: 240	s SWD Lind 15-0003 nce Dixon	e			<b>Reported:</b> 5/16/2024 2:12:15PM
	B	ES 24 - 11 4F	Т				
	2	E405166-18	-				
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2420036
Benzene	ND	0.0250	i	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250		1	05/14/24	05/15/24	
Toluene	ND	0.0250		1	05/14/24	05/15/24	
p-Xylene	ND	0.0250		1	05/14/24	05/15/24	
o,m-Xylene	ND	0.0500		1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250		1	05/14/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130		05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2420036
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	05/14/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130		05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КМ		Batch: 2420049
Diesel Range Organics (C10-C28)	ND	25.0		1	05/14/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/14/24	05/15/24	
Surrogate: n-Nonane		93.8 %	50-200		05/14/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420062
Chloride	5860	100	:	5	05/14/24	05/15/24	

# QC Summary Data

		QC D		ing Dutt	•				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:	24	eus SWD Line 4015-0003					Reported:
Carlsbad NM, 88220		Project Manager:	C	hance Dixon					5/16/2024 2:12:15PM
		Volatile O	rganics l				Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420036-BLK1)							Prepared: 0	5/14/24 A	nalyzed: 05/15/24
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			
LCS (2420036-BS1)							Prepared: 0	5/14/24 A	nalyzed: 05/15/24
Benzene	4.93	0.0250	5.00		98.5	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130			
Toluene	4.88	0.0250	5.00		97.7	70-130			
p-Xylene	4.77	0.0250	5.00		95.5	70-130			
o,m-Xylene	9.64	0.0500	10.0		96.4	70-130			
Total Xylenes	14.4	0.0250	15.0		96.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			
Matrix Spike (2420036-MS1)				Source: l	E405166-	04	Prepared: 0	5/14/24 A	nalyzed: 05/15/24
Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
p-Xylene	5.10	0.0250	5.00	ND	102	63-131			
o,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			
Matrix Spike Dup (2420036-MSD1)				Source: l	E405166-	04	Prepared: 0	5/14/24 A	nalyzed: 05/15/24
Benzene	5.12	0.0250	5.00	ND	102	54-133	2.70	20	
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133	2.23	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	2.51	20	
	4.97	0.0250	5.00	ND	99.4	63-131	2.52	20	
p-Xylene									
p-Xylene p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	2.12	20	



# **QC Summary Data**

<b>Reported:</b> 5/16/2024 2:12:15PM
Analyst: BA
Notes
Analyzed: 05/15/24
Analyzed: 05/15/24
Analyzed: 05/14/24
Analyzed: 05/15/24
A



# **QC Summary Data**

		QC D	umma	iry Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 015-0003					Reported:
Carlsbad NM, 88220		Project Manager:		nance Dixon					5/16/2024 2:12:15PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420049-BLK1)							Prepared: 0	5/14/24 A	analyzed: 05/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.8		50.0		99.7	50-200			
LCS (2420049-BS1)							Prepared: 0	5/14/24 A	analyzed: 05/14/24
Diesel Range Organics (C10-C28)	239	25.0	250		95.5	38-132			
urrogate: n-Nonane	48.9		50.0		97.8	50-200			
LCS Dup (2420049-BSD1)							Prepared: 0	5/14/24 A	analyzed: 05/14/24
Diesel Range Organics (C10-C28)	241	25.0	250		96.4	38-132	0.868	20	
urrogate: n-Nonane	49.8		50.0		99.5	50-200			



# **QC Summary Data**

		-		v								
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:			
3101 Boyd Drive	3101 Boyd Drive			4015-0003					-			
Carlsbad NM, 88220		Project Manager:	С	hance Dixon				5/16/2024 2:12:15				
		Anions	by EPA 3	300.0/9056A	۸				Analyst: IY			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2420062-BLK1)							Prepared: 0	5/14/24 .	Analyzed: 05/14/24			
Chloride	ND	20.0										
LCS (2420062-BS1)							Prepared: 0	5/14/24	Analyzed: 05/14/24			
hloride	249	20.0	250		99.4	90-110						
LCS Dup (2420062-BSD1)							Prepared: 0	5/14/24	Analyzed: 05/14/24			
Chloride	251	20.0	250		100	90-110	0.915	20				

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	_ •••		
Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0003	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/16/24 14:12

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Imaging:	
7/11/202	
4 2:56:53	
PM	

Client: $V \in f f e X$ $C \cap PRO(K)$ Project Name: $a \in V \in S$ $S \cup D \perp i \circ e$ Project Manager: $Ch \wedge i \in O(X \circ n)$ $Address:$ $O \cap f i \in O(X \circ n)$ Address: $O \cap f i \in O(X \circ n)$ $O \cap f i \in O(X \circ n)$ $City, State, Zip:$ Phone: $5 \uparrow S \uparrow g g g g i \neq 72$ $Email:$ $Miscellaneous:$ Email: $C \cap X \circ n \in Q \cup U \otimes f e K \cdot C \wedge$ $Sample Information$ Time       Date Sampled $Matrix$ $No. \circ f$ $Sample Information$ $I \otimes O \circ$ $O S/I O / 21$ $Soil$ $I$ $W \in S 2 Y - 4 Y$ $4 \not \in I$						Anal	ysis	-000 and M	3		3D Sto	State NM CO UT TX EPA Program SDWA CWA RCRA Compliance Y or f PWSID #
Project Name: $a \ge e \lor S \le W   L_i \land e$ Address: $a \ge e \lor S \le W   L_i \land e$ Project Manager: $Ch\land n \leftarrow e \lor O   X \circ n$ Address: $a \ge n \ge 1 = e^{-1}$ Address: $o \land F > 1 \otimes e^{-1}$ City, State, Zip:       Address: $a \ge n \ge 1 = e^{-1}$ City, State, Zip: $a \ge n \ge 1 = e^{-1}$ Phone: $5 \land 7 \le 7$			DRO/ORO by 8015	8015		Anal	ysis	-000 and M	3			EPA Program SDWA CWA RCRA Compliance Y or 1
Address: $0 \uparrow f j \mid d$ City, State, Zip: $j$ Phone: $5 \uparrow S \uparrow g g g$ $1 \not f \uparrow 2$ Email: $C D i \times on Q$ $V d f f d K \land C A$ Miscellaneous:         Sample Information         Time Sampled Date Sampled Matrix Containers       Sample Information         Date Sampled Matrix       WES 2 4 - 4 4 FT $[a: 0 \circ O S/10/21 Soil ]$ $W ES 2 4 - 4 4 4 FT$			DRO/ORO by 8015	8015	and and a second se							SDWA CWA RCRA Compliance Y or 1
City, State, Zip:       Image: City, State, Zip:         Phone: $5$ 7 S $7$ S $7$ S $14$ 7 2         Email:       C D: X on Q. $VOSTCK.CA.$ Miscellaneous:         Sample Information         Time Sampled Date Sampled Matrix Containers       Sample Information         OS/10/21 Soil $WES 24 - 44$ $4FT$			DRO/ORO by	GRO/DRO by 8015	EX by 8021							SDWA CWA RCRA Compliance Y or 1
Phone: $575$ $788$ $1472$ Email: $C$ $0.36$ $0.6176$ $CA$ Sample Information         Time sampled       Date Sampled       Matrix       No. of containers       Sample ID $0.00$ $0.5/10/21$ Soil       I $WES 24 - 44$ $4FT$			DRO/ORO by	GRO/DRO by 8015	EX by 8021	by 8260	de 300.0	WN -	35 - TX Metals			Compliance Y or I
Email:       C Dix on & VOITCX.CA         Sample Information         Time sampled       Date Sampled       Matrix       No. of Containers       Sample ID         0:00       05/10/21       Soil       UES 24 - 44       4FT			DRO/ORO by	GRO/DRO by 8015	EX by 8021	by 8260	de 300.0	WN -	35 - TX Metals			
Sample Information       Time Sampled     Date Sampled     Matrix     No. of Containers     Sample ID       I.G. O.O.     OS/10/21     Soil     I     WES 24-44     4 Ft			DRO/ORO by	GRO/DRO by 801	EX by 8021	by 8260	de 300.0	WN -	Metals			
Sample Information       Time Sampled     Date Sampled     Matrix     No. of Containers     Sample ID       Ø:00     OS/10/21     Soil     I     WES 24 - 44     4FT				GRO/DRO by	EX by 8021	by 8260	de 300.	WN -	Keta M			
Sampled Date Sampled Matrix Containers Sample ID	Field	헐 Lab III Number		GRO/DR	β	à	-8					
		1			BT	٥ ۷	Chlori	BGDOC - NM	TCEQ 1005 - TX RCRA R Metals			Remarks
0:05       WES24-45 4Pt			4	U	V		~					
		2		1			$\square$					
0:10 WES 24-46 4 ft		3										
10:15 WESZY-47 4 Ft		4		_								
10:20 WES 24-48 4 FT		5					$\square$					
10:25 WESZ4-49 4Ft		6					$\downarrow\downarrow$					
10:30 WES 24 - 50 4 Ft		7		4								
10:35 WESZY-SIYFT		8			+		++					
10:40 WES 24-52 4 FT		9	1				$\downarrow$		+			
2:00 BES 24 - 03 4 ft		10		ř	*		•					
Additional Instructions: CC: WWALIC:56 QUCTEX.CA (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or	intentionally mislabeling the sam	mple location	, date o	r time c		ection is	consi	dered fr	aud and	may he s	rounds for	r legal action
ampled by: <u>Whatt wad 1013h</u>	) J									,	,	
Relinquished by: (Signature) Date 5-13:24 Fiboutsbactby: (Signature) Date 0 Time 0 7 Received by: (Signature) Date 0 Time Received by: (Signature)	pature) Date 5.	13.29	Time	0	7		° ≥s	-	or receive		n ice at an a'	must be received on ice the day they are wg temp above 0 but less than &C on
513:29 145	(, 5	.13.24	1	74	5		F	Receiv	ed on	ice:	Lab U	Jse Only N
Received by: (Signature) A. Date 5.13.24 2336 Received by: (Signature)	<u>、 5</u>	<u> 114/24</u>	_	500			1	T1			T2	<b><u>T3</u></b>
telinquished by: (Signature) Date Time Received by: (Sig ample Matrix Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		-	Time	1200 -				AVG T		<u>c 4</u>		
Note: Samples are discarded 14 days after results are reported unless other arrangements are i		ntainer Type vill be returne										
applicable only to those samples received by the laboratory with this COC. The liability of the la	aboratory is limited to the am	nount paid fo	or on th	е геро	ort.							
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ield samp	ler), attest to	o the va	alidity and UGC) 1	authenticity	of this sample. I a	m aware	that tampering with pr intenti	onally mislabeling the	sample	e location, o	date or t	ime of	collecti	on is co	nsidere	d frauc	l and m	ay be grou	nds for le	egal act	ion.		
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nquishe	d by: (Signa	ature)		Date	Time		Received by: (Signatur	e) D.	ate		Time		2 -	•, •	AVG	i Ten	ים, bo ot	Y					

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envirotech

## **Envirotech Analytical Laboratory**

lient:	Vertex Resource Services Inc.	ate Received:	05/14/24	06:00		Work Order ID:	E405166
Phone:	(575) 748-0176 D	ate Logged In:	05/14/24			Logged In By:	Angelina Pineda
Email:		ue Date:		17:00 (1 day TA	T)		
Chain of	f Custody (COC)						
l. Does t	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier	r: <u>Courier</u>		
	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes			Comment	s/Resolution
Sample	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	_						
	sample cooler received?		Yes				
8. If yes,	, was cooler received in good condition?		Yes				
9. Was th	he sample(s) received intact, i.e., not broken?		Yes				
0. Were	e custody/security seals present?		No				
1. If yes	s, were custody/security seals intact?		NA				
2. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes				
3. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	C				
Sample	<u>Container</u>						
4. Are a	aqueous VOC samples present?		No				
5. Are	VOC samples collected in VOA Vials?		NA				
6. Is the	e head space less than 6-8 mm (pea sized or less)?		NA				
7. Was	a trip blank (TB) included for VOC analyses?		NA				
8. Are 1	non-VOC samples collected in the correct containers?		Yes				
9. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes				
Field La							
	e field sample labels filled out with the minimum inform	ation:	V				
	Sample ID? Date/Time Collected?		Yes Yes				
	Collectors name?		Yes				
Sample	Preservation_						
21. Does	s the COC or field labels indicate the samples were press	erved?	No				
22. Are s	sample(s) correctly preserved?		NA				
24. Is lat	b filteration required and/or requested for dissolved meta	als?	No				
Multiph	ase Sample Matrix						
26. Does	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	s, does the COC specify which phase(s) is to be analyze	d?	NA				
Subcont	ract Laboratory						
	samples required to get sent to a subcontract laboratory?		No				
	a subcontract laboratory specified by the client and if so		NA	Subcontract I	ah. NA		

**Client Instruction** 

Signature of client authorizing changes to the COC or sample disposition.







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405156

Job Number: 24015-0003

Received: 5/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/14/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405156 Date Received: 5/13/2024 6:15:00AM

Chance Dixon,



Page 301 of 397

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2024 6:15:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary											
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:	Zeus SWD Line 24015-0003		Reported:						
Carlsbad NM, 88220		Project Manager:			05/14/24 13:44						
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container						
WES24 - 40	E405156-01A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.						
WES24 - 41	E405156-02A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.						
WES24 - 42	E405156-03A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.						
WES24 - 43	E405156-04A	Soil	05/09/24	05/13/24	Glass Jar, 2 oz.						

C



	S	Sample D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Number: Project Manager:		s SWD Line 15-0003 nce Dixon	<b>Reported:</b> 5/14/2024 1:44:53PM			
		WES24 - 40					
		E405156-01					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst: I	EG		Batch: 2420003
Benzene	ND	0.0250	1		05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1		05/13/24	05/13/24	
Toluene	ND	0.0250	1		05/13/24	05/13/24	
o-Xylene	ND	0.0250	1		05/13/24	05/13/24	
p,m-Xylene	ND	0.0500	1		05/13/24	05/13/24	
Total Xylenes	ND	0.0250	1		05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130		05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130		05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: H	ХM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1		05/13/24	05/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/13/24	05/13/24	
Surrogate: n-Nonane		105 %	50-200		05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: J	M		Batch: 2420002
Chloride	ND	20.0	1		05/13/24	05/13/24	



	Da	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Number	r: 240	5-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	V	VES24 - 41				
	1	E405156-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	kg Analyst: EG			Batch: 2420003
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
Toluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
o,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Total Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		107 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2420002
Chloride	ND	20.0	1	05/13/24	05/13/24	



	50	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	V	WES24 - 42				
		E405156-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	g Analyst: EG		Batch: 2420003	
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
Toluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
p,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Total Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		103 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2420002
Chloride	2700	40.0	2	05/13/24	05/13/24	



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0003			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/14/2024 1:44:53PM
	V	VES24 - 43				
	]	E405156-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	/kg Analyst: EG			Batch: 2420003
Benzene	ND	0.0250	1	05/13/24	05/13/24	
Ethylbenzene	ND	0.0250	1	05/13/24	05/13/24	
Toluene	ND	0.0250	1	05/13/24	05/13/24	
p-Xylene	ND	0.0250	1	05/13/24	05/13/24	
o,m-Xylene	ND	0.0500	1	05/13/24	05/13/24	
Total Xylenes	ND	0.0250	1	05/13/24	05/13/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: EG		Batch: 2420003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/24	05/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	05/13/24	05/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2420001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/24	05/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/13/24	05/13/24	
Surrogate: n-Nonane		108 %	50-200	05/13/24	05/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2420002
Chloride	ND	20.0	1	05/13/24	05/13/24	



# QC Summary Data

		QU DI		i j Duu	4				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:	24	eus SWD Line 4015-0003	:				Reported:
Carlsbad NM, 88220		Project Manager:	C	hance Dixon					5/14/2024 1:44:53PM
		Volatile O	rganics l	by EPA 802	1B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420003-BLK1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.7	70-130			
LCS (2420003-BS1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.82	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.2	70-130			
Matrix Spike (2420003-MS1)				Source:	E405156-	02	Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.86	0.0250	5.00	ND	97.3	61-133			
Toluene	4.95	0.0250	5.00	ND	99.0	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.8	63-131			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			
Matrix Spike Dup (2420003-MSD1)				Source:	E405156-	02	Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Benzene	5.06	0.0250	5.00	ND	101	54-133	0.645	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.01	20	
			5.00	ND	99.9	61-130	0.871	20	
Toluene	5.00	0.0250	5.00						
Toluene o-Xylene	4.89	0.0250 0.0250	5.00	ND	97.8	63-131	0.990	20	
	4.89 9.97	0.0250 0.0500	5.00 10.0	ND ND	97.8 99.7	63-131 63-131	0.990 0.995	20 20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	0.990	20	



# **QC Summary Data**

		QC D	umm	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 24015-0003 Chance Dixon					<b>Reported:</b> 5/14/2024 1:44:53PM
	No	nhalogenated O	Organics	by EPA 801	5D - Gl	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2420003-BLK1)							Prepared: 0	5/13/24 A	nalyzed: 05/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2420003-BS2)							Prepared: 0	5/13/24 A	nalyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			
Matrix Spike (2420003-MS2)	atrix Spike (2420003-MS2) Source: E405156-02 Pro						Prepared: 0	5/13/24 A	nalyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			
Matrix Spike Dup (2420003-MSD2)				Source: E	405156-	02	Prepared: 0	5/13/24 A	nalyzed: 05/13/24
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	0.648	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			



# **QC Summary Data**

		QC D	umma	iry Data	•				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 015-0003					Reported:
Carlsbad NM, 88220		Project Manager:		nance Dixon					5/14/2024 1:44:53PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420001-BLK1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.7		50.0		113	50-200			
LCS (2420001-BS1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
'urrogate: n-Nonane	56.5		50.0		113	50-200			
LCS Dup (2420001-BSD1)							Prepared: 0	5/13/24 A	Analyzed: 05/13/24
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	0.686	20	
urrogate: n-Nonane	56.5								



## **QC Summary Data**

				v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0003					•
Carlsbad NM, 88220		Project Manager	ger: Chance Dixon						5/14/2024 1:44:53PM
		Anions	by EPA	300.0/90564	١				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420002-BLK1)							Prepared: 0	5/13/24 /	Analyzed: 05/13/24
Chloride	ND	20.0							
LCS (2420002-BS1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
hloride	250	20.0	250		99.9	90-110			
LCS Dup (2420002-BSD1)							Prepared: 0	5/13/24	Analyzed: 05/13/24
Chloride	249	20.0	250		99.6	90-110	0.293	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0003	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/14/24 13:44

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released
to
Imaging:
1
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1
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124
2:5
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PM

## \_

							Chain of	Cust	ody												Page	of _
	Client Information Invoice Information						Lab Use Only							TAT			Stat	e				
Client: V	ertex c	TAP RO	(r)	· · · · · · · · · · · · · · · · · · ·	_	Company: Taprock		Lat	wo	0# Job Number 05156 19031-0001			<u>, L</u>	1D 2	2D 3	D Std	NM	CO UT	TX			
	ame: 200				-	Address: 0-file		E_	40	515	6	191	731	-000								
Address:	anager: 0	File	0120	<u>,</u>	- [3]	City, State, Zip: Phone:			-	<b></b>	<u> </u>		Ans	hucie	and	Moth	<u></u>		<u> </u>		PA Progra	
City, State		J J		_	-	Email:	<b>J</b>				T			uy313		Vietn				SDWA	CWA	RCRA
Phone:	515	188 0- al	1472	•	-   P	Aișcellaneous:																
Email:	CPK	on all	erte	<u>X.Ca</u>		•				8015	8015									Complian	ce Y	or N
				<u>de degree</u>				<u> </u>		- <u></u> }	P 80	ត្ត	60	0.00	Σ	ř	tals			PWSID #		
Time				Samp	e Inform	ation		<u> </u>	Lab	- 8	R R	PV 80	y 82	ide 3(	z v	ŝ	8   8				Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID		Field	Lab Number	DRO/ORO	GRO/DRO by I	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
2.00	5/09/24	50:1	1	WESZY	- 40				١	V	1	V		<b>v</b>								
12:05			ł	WESZU					2	1	1	J		<b>~</b>								
12:20			1	WESZY					3	V	1	~		<b>\</b>								
12:15	4	$\downarrow$	1	WESZ	4 - 43	·		1	4	V	J	1		✓								
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Additiona	Instruction	ns: <i>P </i> Ca	se ci	C: WVA	218:56 0	wertex.co	٦	-				•	•		·							
(field sampl	er), attest to the	e validity and れナル	authenticity	of this sample.	. I am aware	that tampering with or	intentionally mislabeling	the sam	ple locatio	1, date	or time	of coll	lection	is con:	sidered	fraud a	nd may	be grou	unds for	legal action.		
	d by: (Signature		Date		Гіте <b>9:21</b>	Received by: (Si	e Gongaleç <sup>gnature</sup> ), bilo	Date 5-	0-24	U Time					Sample	s requiri	g therm	nal prese	rvation m	ust be received g temp above (		
Vyice	by Signature	onsale	Data		<sup>Fime</sup> 1638	Received by: (Si	gnature)	Date S.	10.24	Time	80	D			Rece	ived o	n ice		Lab Us	se Only		•
	d by: (Signature		Date	1-24	Time L 4 X	Received by: (Si	gnature)	Date	113/24		015	5	] <u> </u>		T1						<u>T3</u>	
telinquishe	d by: (Signature	e)	Date		Fime	Received by: (Si	gnature)	Date	<del>, ″  ´</del>	Time			1		AVG	Temp	°C_	4				
	x: \$ - Soil, <b>Sd</b> - So					•			ainer Typ						ag - a	mber	glass,					
Note: Samp							made. Hazardous samp aboratory is limited to th						osed o	of at t	he clier	nt expe	nse. T	he repo	ort for tl	he analysis o	of the above	e samples is

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

lient:	Vertex Resource Services Inc. De	ate Received:	05/13/24 06	:15	Work Order ID:	E405156
Phone:	(575) 748-0176 Da	ate Logged In:	05/10/24 14	:15	Logged In By:	Angelina Pineda
Email:		ue Date:		':00 (1 day TAT)	66 7	8
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the	e field,	Yes		Commen	ts/Resolution
G	i.e, 15 minute hold time, are not included in this disussion.				<u>commen</u>	
	Turn Around Time (TAT)		Var			
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample			Ver			
	sample cooler received? was cooler received in good condition?		Yes			
-	_		Yes			
	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>			
Sample	Container					
14. Are a	aqueous VOC samples present?		No			
15. Are <b>V</b>	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La	lbel					
20. Were	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
-	<u>Preservation</u> s the COC or field labels indicate the samples were prese	arved?	No			
	sample(s) correctly preserved?		NO			
	b filteration required and/or requested for dissolved meta	als?	No			
	* *		110			
	a <b>se Sample Matrix</b> s the sample have more than one phase, i.e., multiphase?		N			
			No			
•	s, does the COC specify which phase(s) is to be analyzed	u?	NA			
	tract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA S			

\_\_\_\_\_

Date



envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

•





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405180

Job Number: 24015-0001

Received: 5/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/16/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/16/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405180 Date Received: 5/15/2024 9:00:00AM

Chance Dixon,



Page 316 of 397

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2024 9:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.

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## Sample Summary

		Sample Sum	mary		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0001		-
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/16/24 15:40
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24-02 4ft	E405180-01A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-12 4ft	E405180-02A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-13 4ft	E405180-03A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-14 4ft	E405180-04A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-15 4ft	E405180-05A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-16 4ft	E405180-06A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-17 4ft	E405180-07A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-18 4ft	E405180-08A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-19 4ft	E405180-09A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-20 4ft	E405180-10A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-21 4ft	E405180-11A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-22 4ft	E405180-12A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-23 4ft	E405180-13A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.
ES24-24	E405180-14A	Soil	05/13/24	05/15/24	Glass Jar, 2 oz.



	50	ample D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	В	ES24-02 4ft				
		E405180-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
o-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		107 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		111 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2420093
Chloride	291	20.0	1	05/15/24	05/16/24	



	29	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	B	ES24-12 4ft				
	]	E405180-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
p-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		110 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2420093
Chloride	3210	40.0	2	05/15/24	05/16/24	



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	В	ES24-13 4ft				
	]	E405180-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
p-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		110 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420093
Chloride	4910	100	5	05/15/24	05/16/24	



	Sa	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	B	ES24-14 4ft				
	]	E405180-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
o-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		108 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		110 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: IY		Batch: 2420093
Chloride	3520	40.0	2	05/15/24	05/16/24	



	29	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001			Reported:
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	B	ES24-15 4ft				
	]	E405180-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
p-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		109 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2420093
Chloride	4420	40.0	2	05/15/24	05/16/24	


	56	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon			5/16/2024 3:40:04PM
	В	BES24-16 4ft				
		E405180-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Toluene	ND	0.0250	1	05/15/24	05/15/24	
o-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		108 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2420093
Chloride	6330	100	5	05/15/24	05/16/24	



	58	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001		Reported:	
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon		5/16/2024 3:40:04PM	
	В	ES24-17 4ft				
	]	E405180-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/15/24	
Foluene	ND	0.0250	1	05/15/24	05/15/24	
p-Xylene	ND	0.0250	1	05/15/24	05/15/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/15/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	05/15/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		108 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: IY		Batch: 2420093
Chloride	3440	40.0	2	05/15/24	05/16/24	



	56	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001		Reported:	
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	В	ES24-18 4ft				
		E405180-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/16/24	
Toluene	ND	0.0250	1	05/15/24	05/16/24	
o-Xylene	ND	0.0250	1	05/15/24	05/16/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/15/24	
Surrogate: n-Nonane		109 %	50-200	05/15/24	05/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420093
Chloride	4280	40.0	2	05/15/24	05/16/24	



	D.	ample D	ata			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001		Reported:	
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon		5/16/2024 3:40:04PM	
	В	ES24-19 4ft				
		E405180-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/16/24	
Toluene	ND	0.0250	1	05/15/24	05/16/24	
p-Xylene	ND	0.0250	1	05/15/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/15/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/16/24	
Surrogate: n-Nonane		108 %	50-200	05/15/24	05/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2420093
Chloride	4650	40.0	2	05/15/24	05/16/24	



	29	imple D	ลเล			
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001	Reported:		
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	B	ES24-20 4ft				
	]	E405180-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/16/24	
Toluene	ND	0.0250	1	05/15/24	05/16/24	
p-Xylene	ND	0.0250	1	05/15/24	05/16/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/16/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/16/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/16/24	
Surrogate: n-Nonane		108 %	50-200	05/15/24	05/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2420093
Chloride	2340	40.0	2	05/15/24	05/16/24	



	Sa	ample D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbo Project Manag	er: 240	s SWD Line 15-0001 nce Dixon	;			<b>Reported:</b> 5/16/2024 3:40:04PM
	В	BES24-21 4ft					
		E405180-11					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	1	Analyst: BA	L		Batch: 2420092
Benzene	ND	0.0250	1		05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1		05/15/24	05/16/24	
Toluene	ND	0.0250	1		05/15/24	05/16/24	
p-Xylene	ND	0.0250	1		05/15/24	05/16/24	
p,m-Xylene	ND	0.0500	1		05/15/24	05/16/24	
Total Xylenes	ND	0.0250	1		05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130		05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: BA	L		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130		05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV	7		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1		05/15/24	05/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/15/24	05/16/24	
Surrogate: n-Nonane		108 %	50-200		05/15/24	05/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: IY			Batch: 2420093
Chloride	3220	40.0	2		05/15/24	05/16/24	

	58	imple D	ata			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	r: 240	15-0001		Reported:	
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon		5/16/2024 3:40:04PM	
	B	ES24-22 4ft				
	]	E405180-12				
		Reporting				
Analyte	Result	Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/16/24	
Toluene	ND	0.0250	1	05/15/24	05/16/24	
o-Xylene	ND	0.0250	1	05/15/24	05/16/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/16/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/16/24	
Dil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/16/24	
Surrogate: n-Nonane		107 %	50-200	05/15/24	05/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2420093
Chloride	863	20.0	1	05/15/24	05/16/24	



	25	imple D	ala			
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Line			
3101 Boyd Drive	Project Numbe	er: 240	15-0001	Reported:		
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon			5/16/2024 3:40:04PM
	В	ES24-23 4ft				
	]	E405180-13				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420092
Benzene	ND	0.0250	1	05/15/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/15/24	05/16/24	
Toluene	ND	0.0250	1	05/15/24	05/16/24	
p-Xylene	ND	0.0250	1	05/15/24	05/16/24	
o,m-Xylene	ND	0.0500	1	05/15/24	05/16/24	
Fotal Xylenes	ND	0.0250	1	05/15/24	05/16/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2420092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/24	05/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	05/15/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2420084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/24	05/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/24	05/16/24	
Surrogate: n-Nonane		109 %	50-200	05/15/24	05/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2420093
Chloride	1790	20.0	1	05/15/24	05/16/24	



	S	ample D	ata					
Vertex Resource Services Inc. 3101 Boyd Drive	Project Name Project Numb		s SWD Lin	e			Reported:	
Carlsbad NM, 88220	Project Manag							
		BES24-24						
		E405180-14						
		Reporting						
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA			Batch: 2420092	
Benzene	ND	0.0250		1	05/15/24	05/16/24		
Ethylbenzene	ND	0.0250		1	05/15/24	05/16/24		
Toluene	ND	0.0250		1	05/15/24	05/16/24		
o-Xylene	ND	0.0250		1	05/15/24	05/16/24		
o,m-Xylene	ND	0.0500		1	05/15/24	05/16/24		
Total Xylenes	ND	0.0250		1	05/15/24	05/16/24		
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130		05/15/24	05/16/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2420092	
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/15/24	05/16/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130		05/15/24	05/16/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2420084	
Diesel Range Organics (C10-C28)	ND	25.0		1	05/15/24	05/16/24		
Dil Range Organics (C28-C36)	ND	50.0		1	05/15/24	05/16/24		
Surrogate: n-Nonane		111 %	50-200		05/15/24	05/16/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	IY		Batch: 2420093	
Chloride	4150	40.0		2	05/15/24	05/16/24		

## QC Summary Data

		QC D	u1111116	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:	24	eus SWD Line 4015-0001					Reported:
Carlsbad NM, 88220		Project Manager:	С	hance Dixon					5/16/2024 3:40:04PM
		Volatile O	rganics l	by EPA 8021	IB				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420092-BLK1)							Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.6	70-130			
LCS (2420092-BS1)							Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			
Matrix Spike (2420092-MS1)				Source: I	E <b>405178</b> -	-24	Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.18	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			
Matrix Spike Dup (2420092-MSD1)				Source: I	E <b>405178</b> -	-24	Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Benzene	5.35	0.0250	5.00	ND	107	54-133	0.398	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	0.106	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	0.171	20	
o-Xylene	5.20	0.0250	5.00	ND	104	63-131	0.350	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	0.103	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	0.185	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51	0.0250	15.0 8.00	ND	104 93.9	63-131 70-130	0.185	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



## **QC Summary Data**

		QC D	umm	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	24	Ceus SWD Line 4015-0001 Chance Dixon					<b>Reported:</b> 5/16/2024 3:40:04PM
	Nor	nhalogenated C	Organics	by EPA 8015	5D - GI	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2420092-BLK1)							Prepared: 0	5/15/24 A	nalyzed: 05/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			
LCS (2420092-BS2)							Prepared: 0	5/15/24 A	analyzed: 05/15/24
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.74		8.00		109	70-130			
Matrix Spike (2420092-MS2)				Source: E	405178-2	24	Prepared: 0	5/15/24 A	analyzed: 05/15/24
Gasoline Range Organics (C6-C10)	56.7	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.77		8.00		110	70-130			
Matrix Spike Dup (2420092-MSD2)				Source: E	405178-2	24	Prepared: 0	5/15/24 A	analyzed: 05/15/24
Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130	0.433	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			



## **QC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0001					Reported:
Carlsbad NM, 88220		Project Manager:		hance Dixon					5/16/2024 3:40:04PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420084-BLK1)							Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			
LCS (2420084-BS1)							Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Diesel Range Organics (C10-C28)	305	25.0	250		122	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			
LCS Dup (2420084-BSD1)							Prepared: 0	5/15/24 A	Analyzed: 05/15/24
Diesel Range Organics (C10-C28)	305	25.0	250		122	38-132	0.100	20	
Surrogate: n-Nonane	54.6		50.0		109	50-200			
		25.0					0.100	20	



## **QC Summary Data**

				v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					•
Carlsbad NM, 88220		Project Manager	: C	hance Dixon					5/16/2024 3:40:04PM
		Anions	by EPA	300.0/90564	١				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420093-BLK1)							Prepared: 0	5/15/24	Analyzed: 05/16/24
Chloride	ND	20.0							
LCS (2420093-BS1)							Prepared: 0	5/15/24	Analyzed: 05/16/24
hloride	250	20.0	250		100	90-110			
LCS Dup (2420093-BSD1)							Prepared: 0	5/15/24	Analyzed: 05/16/24
Chloride	249	20.0	250		99.5	90-110	0.591	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	2 ••••••••		
Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/16/24 15:40

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client Information Invoice Information	<u>ו</u>			L	ab U	se Or	niy				TAT		s des Selec		State	
int: VCTYCX CTAPROLED ject Name: 2445 SWD Line Address: 20 Pile		Lab	WOI	# 51'	08	Job 24	Num	-000	21	1D	2D 31 V	D Std		/ со ′	UTT	x
ject Manager: Chance Dixon City, State, Zip:		<b>_</b>	· · · · ·				14 .		191		a ing	<u></u>			Са р	<u>a</u>
dress: 00 f : 1 e Phone:	<u> </u>	— [ <sup>1</sup> . ,	_		T	An: T	alysi: T	s and M	vietr				SDWA	-	ogram	RCRA
one: 5759881472 Miscellaneous:																
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Sample Information			DRO/ORO by 8015	GRO/DRO by 8015	5	99	Chloride 300.0	Σ	ř	RCRA 8 Metals			PWSID	#		
imo la secola de la		Lab	- g	DRO	BTEX by 8021	by 82	ride 3	-	TCEQ 1005 - TX	N 8 M				Rem	arks	
npled Date Sampled Matrix Containers Sample ID	Field	Number	DR0	GRO,	BTEX	VOC by 8260	CHO	BGDOC - NM	1CEQ	RCR						
00 05/13/21 Soil 11 BES24-02 4Ft		١	V	1	V		V									
os       BES24-12 4Ft		2			11	<u> </u>	1									
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itional Instructions: CC: WWadle; sha vertex, ca		10	V	4	4		J									
Id sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabe pled by: $\underline{W5aff}$					-	llection	n is cor	nsidered (	fraud	and ma	y be gro	unds for I	legal action	•		
nquished by: (Signature) Lift W. Signature) Lift W. Signature) Lift W. Signature)	Date 5 . /	4.24	Time	14.	5	4				-	cked in ic	e at an avg	ust be receive g temp above			
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Auished by: (Signature) Date Sill:12 Time Received by: (Signature) 2400	<u> </u>	5 24	C	20	C			<u>T1</u>	14.4	. <u> </u>	<u></u>	2 <sup>1</sup>		<u>T3</u>	· .	
nquished by: (Signature) Date Time Received by: (Signature)	Date		Time					AVG	Tem	p°C_	4	<b>a.</b> -				
ple Matrix: 🌮 Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other e: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous s		ainer Typ												ofthe	ahovo co	molec

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#### **Chain of Custody**

	Clie	nt Inform	ation				Invoice Informatio	on				La	b Us	ie On	ly				TA	AT .				Stat	e	
Client:	Vertex					Co	mpany: Tat FOLK			Lab	WO#	1	~	Job	Numi	ber		1D	2D	3D	Std		NM	CO UT	ТХ	$\square$
Project N		ENS S		ine		Ad	Idress: On file			E4	WO#	512	50	240	5	60	<b>S</b>		V				V			
	lanager: Cl				_	<u>Ci</u>	ty, State, Zip:				* ·									-		10 Ju	$(S_i)^{i < i + r}$	k se se s		
Address:		On tin	C		_ 63	<u>Ph</u>	ione:			•				Ana	alysis	and	Met	hod					EP	A Progra		
<u>City, Stat</u>	e, Zip:	<u> </u>		-	_	Em	ail: 🔍 🗸															SD	WA	CWA	RC	CRA
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		. * 29 Jania 48 Aliana									ov 8(	8	ដ	g	0.0	Σ	Ĕ	tals				PWS	SID #			
				Sam	ple Infor	matio	on		_		<b>B</b>	1 ĝ	V 80	, 826	le 30	N.	ģ	Ř								
Time Sampled	Date Sampled	Matrix	No. of Containers				Sample ID	Field	N Eilter	Lab umber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals						Remarks		
19:50	o5/13/21	soi)		BESZ	4-21	4	£†			11	V	V	V		V							_				
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	d by: (Signature			24.24	Time 4	5	Received by: Bignapure	Dat	5-)1	424	Time	14.	5		1.1		•	-						on ice the da but less thar		.re
	d by: (Signature			14.24		5	Received by: (Signature)	Dat	e	·m	Time 10	31	5	2 2 2		Rece	eived	l on i	ce:	$\sim$	ab Us // N	e Or	ly	-		
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Sample Mate	ix: S- Soil, Sd - So	olid, Sg - Slud	ge, A - Aqueo	ous, O - Othe	er S		· · · · · · · · · · · · · · · · · · ·	Co	ntain	er Type	: 8-1	glass,	<b>p -</b> p	oly/pl	astic,	ag -	ambe	er glas	ss, v -	VOA	2					

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

	s: Please take note of any NO checkmarks.	-	-	Checklist (SRC)		
Client:	e no response concerning these items within 24 hours of the Vertex Resource Services Inc.	ate Received:	05/15/24		Work Order ID:	E405180
	_					
Phone: Email:		ate Logged In: ue Date:	05/14/24	17:43 17:00 (1 day TAT)	Logged In By:	Alexa Michaels
		ue Date.	03/10/24	(1 day 1A1)		
<u>Chain o</u>	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th	e field,	Yes		Comment	4- /D I 4 <sup>1</sup>
	i.e, 15 minute hold time, are not included in this disucssion.				Commen	ts/Resolution
	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling o visible ice, record the temperature. Actual sample ter	ceived w/i 15	Yes C			
	<u>Container</u>		-			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La		, concetted.	105			
	e field sample labels filled out with the minimum inform	ation				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
<u>Sample</u>	<b>Preservation</b>					
	s the COC or field labels indicate the samples were press	erved?	No			
	sample(s) correctly preserved?		NA			
24. Is la	b filteration required and/or requested for dissolved meta	als?	No			
Multiph	nase Sample Matrix					
26. Doe	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	es, does the COC specify which phase(s) is to be analyze	d?	NA			
<u>Sub</u> cont	tract Laboratory_					
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		
	Instruction					
CHCHU	111501 WV11011					



envirotech Inc.

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Signature of client authorizing changes to the COC or sample disposition.

Date





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405219

Job Number: 24015-0001

Received: 5/16/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/17/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/17/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405219 Date Received: 5/16/2024 9:30:00AM

Chance Dixon,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2024 9:30:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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<i>v</i>		Sample Sum	mary		0
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:	Zeus SWD Line 24015-0001		Reported:
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/17/24 15:43
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BES24 - 25 4FT	E405219-01A	Soil	05/14/24	05/16/24	Glass Jar, 2 oz.
3ES24 - 26 4FT	E405219-02A	Soil	05/14/24	05/16/24	Glass Jar, 2 oz.
BES24 - 27 4FT	E405219-03A	Soil	05/14/24	05/16/24	Glass Jar, 2 oz.
BES24 - 28 4FT	E405219-04A	Soil	05/14/24	05/16/24	Glass Jar, 2 oz.



	. Su	mple D	uu				
Vertex Resource Services Inc.	Project Name:		s SWD Lin	e			
3101 Boyd Drive	Project Number		15-0001				Reported:
Carlsbad NM, 88220	Project Manage	r: Cha	nce Dixon	5/17/2024 3:43:15PN			
	BES	824 - 25 4F	Г				
	F	2405219-01					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
o-Xylene	ND	0.0250		1	05/16/24	05/16/24	
o,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Total Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		101 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/16/24	05/16/24	
urrogate: Toluene-d8		101 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst:	NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
urrogate: n-Nonane		108 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420152
Chloride	1500	40.0		2	05/16/24	05/17/24	





	Sa	mple D	ata				
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	r: 2401	SWD Lir 5-0001 nce Dixon				<b>Reported:</b> 5/17/2024 3:43:15PM
	BE	S24 - 26 4F	Г				
	-	E405219-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
p-Xylene	ND	0.0250		1	05/16/24	05/16/24	
o,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Fotal Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		103 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		103 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
Surrogate: n-Nonane		105 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420152
Chloride	4140	40.0		2	05/16/24	05/17/24	



	S	ample D	ata				
Vertex Resource Services Inc.	Project Name	e: Zeus	s SWD Lii	ne			
3101 Boyd Drive	Project Numb	ber: 240	5-0001		Reported:		
Carlsbad NM, 88220	Project Mana	iger: Chai	nce Dixon				5/17/2024 3:43:15PM
	В	ES24 - 27 4F	Г				
		E405219-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
o-Xylene	ND	0.0250		1	05/16/24	05/16/24	
o,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Fotal Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		101 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		101 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Dil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
Surrogate: n-Nonane		107 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2420152
Chloride	3060	40.0		2	05/16/24	05/17/24	



	D	ample D	ata						
Vertex Resource Services Inc.	Project Name:	Zeus	SWD Lir	ne					
3101 Boyd Drive	Project Numb						Reported:		
Carlsbad NM, 88220	Project Manag	ger: Chai	Chance Dixon				5/17/2024 3:43:15PM		
	BI	ES24 - 28 4F	ſ						
		E405219-04							
		Reporting							
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: EG		Batch: 2420138		
Benzene	ND	0.0250		1	05/16/24	05/16/24			
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24			
l'oluene	ND	0.0250		1	05/16/24	05/16/24			
-Xylene	ND	0.0250		1	05/16/24	05/16/24			
,m-Xylene	ND	0.0500		1	05/16/24	05/16/24			
Total Xylenes	ND	0.0250		1	05/16/24	05/16/24			
Surrogate: Bromofluorobenzene		107 %	70-130		05/16/24	05/16/24			
urrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		05/16/24	05/16/24			
urrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2420138		
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24			
Surrogate: Bromofluorobenzene		107 %	70-130		05/16/24	05/16/24			
urrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		05/16/24	05/16/24			
urrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2420136		
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24			
Dil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24			
Surrogate: n-Nonane		108 %	50-200		05/16/24	05/17/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2420152		
Chloride	2520	40.0		2	05/16/24	05/17/24			



## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		us SWD Line 015-0001					Reported:
Carlsbad NM, 88220		Project Manager:	Ch	ance Dixon					5/17/2024 3:43:15PM
	V	olatile Organic	Сотро	unds by EPA	A 82601	3			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420138-BLK1)						]	Prepared: 0:	5/16/24 A	nalyzed: 05/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2420138-BS1)							Prepared: 0:	5/16/24 A	nalyzed: 05/16/24
Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.56	0.0250	2.50		103	70-130			
o-Xylene	2.77	0.0250	2.50		111	70-130			
o,m-Xylene	5.57	0.0500	5.00		111	70-130			
Total Xylenes	8.34	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
LCS Dup (2420138-BSD1)							Prepared: 0:	5/16/24 A	nalyzed: 05/16/24
Benzene	2.60	0.0250	2.50		104	70-130	0.696	23	
Ethylbenzene	2.70	0.0250	2.50		108	70-130	0.333	27	
Toluene	2.54	0.0250	2.50		101	70-130	1.02	24	
p-Xylene	2.88	0.0250	2.50		115	70-130	3.92	27	
o,m-Xylene	5.79	0.0500	5.00		116	70-130	3.92	27	
Total Xylenes	8.68	0.0250	7.50		116	70-130	3.92	27	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
	0.516		0.500		103	70-130			



## **QC Summary Data**

		QC D	umm	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 24015-0001 Chance Dixon					<b>Reported:</b> 5/17/2024 3:43:15PM
	No	onhalogenated C	Organics	s by EPA 801:	5D - G	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2420138-BLK1)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2420138-BS2)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.5	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2420138-BSD2)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130	1.86	20	
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



## **QC Summary Data**

<b>Reported:</b> 7/2024 3:43:15PM
//2024 3:43:15PM
Analyst: NV
Notes
zed: 05/17/24
zed: 05/17/24
zed: 05/17/24
Z



## **QC Summary Data**

		-		v					
Vertex Resource Services Inc.		Project Name:	Z	eus SWD Line	e				Reported:
3101 Boyd Drive		Project Number:	24	4015-0001					•
Carlsbad NM, 88220		Project Manager:	С	hance Dixon					5/17/2024 3:43:15PM
		Anions	by EPA 3	300.0/9056A	۸				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420152-BLK1)							Prepared: 0	5/16/24	Analyzed: 05/17/24
Chloride	ND	20.0							
LCS (2420152-BS1)							Prepared: 0	5/16/24	Analyzed: 05/17/24
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2420152-BSD1)							Prepared: 0	5/16/24	Analyzed: 05/17/24

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/17/24 15:43

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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**Client Information** 

Client: Uctlex CTAPROCKS	Company: Taprocte	_ Lab	WO#	to t	0	Job N	lumbe	r S	1D	2D 3D St	
Project Name: Reus SWD Line	Address: 00 f;10	_  E4	105	521	9	24	25-0	000	4		
Project Manager: Chance Dixon	City, State, Zip:	_   .			s.	3. <sub>1</sub>			2.12	<u> </u>	
Address: On fire	Phone:	_ [.*.				Ana	lysis a	nd Me	thod		EPA Program
City, State, Zip: J	Email: V							_			SDWA CWA RCRA
Phone: 575 988 1472	Miscellaneous:										
Email: COixon QUertex. Ca			្រះ	ង	1						Compliance Y or N
				8			3.	< ×	ş		PWSID #
Sample Inf	ormation		ļõ	۵ ۵	8	826	8	- SC	Met		
Time Date Sampled Matrix No. of Containers	Sample ID Bailt	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGUOL - NM TCEQ 1005 - TX	RCRA 8 Metals		Remarks
10:00 05/14/24 5 1 BES24-2	S 4 Pt	١	V	V	V		V				
10:05       BES 24-2		2	1	1	{						
10:10 BES24-	el y Fr	3									
10:15 N + N BES24-2	84Ft	4	Y	4	4		V				
									Γ		
Additional Instructions: CC: Wwalleish al	ertex.ca		•						<b></b>	· · · · ·	
I, (field sampler), attest to the validity and authenticity of this sample. I am a Sampled by:	ware that tampering with or intentionally mislabeling the samp	e location	, date c	or time	of col	lection i	s conside	ered frau	d and m	nay be grounds fo	r legal action.
Relinquished by: (Signature) Date 5, 5-24	500 Received by: (Signature) Date	524	Time	51	0						must be received on ice the day they are avg temp above 0 but less than &C on
Relinquished by: (Signature) Date Time -	Received by: (Signature) Date	5.24	Time 1	200	>		R	eceive	d on i		Jse Only N
Relinglyshed by (Signature) Date Time S.IS.W W	Received by: (Signature) Date	u/24	Time	13	S		Т	L		<u>T2</u>	<u> </u>
Relinquished by: (Signature) Date Time	Received by: (Signature) Date		Time		-		A	VG Ter	np °C	4	
Sample Matrix: &- Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Conta	iner Typ	10	glass,	<b>p - p</b>	oly/pla	stic, ag	g - amb	er glas	ss, v - VOA g	
Note: Samples are discarded 14 days after results are reported unles											
applicable only to those samples received by the laboratory with this	COC. The liability of the laboratory is limited to the amou	nt paid fo	or on ti	he rep	ort.						

**Chain of Custody** 

Lab Use Only

e

TAT

**Invoice Information** 

State

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#### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Vertex Resource Services Inc. Da	te Received:	05/16/24	09:30	Work Order ID:	E405219
Phone:		te Logged In:	05/15/24		Logged In By:	Alexa Michaels
Email:		ie Date:		17:00 (1 day TAT)	Logged in Dy.	Thexa Wienaels
	<u>f Custody (COC)</u>					
	the sample ID match the COC?	1 000	Yes			
	the number of samples per sampling site location match	the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	s/Resolution
Sample	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-	, ,	Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	ation:	17			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
	Preservation		105			
-	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ls?	No			
Multinh	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed	1?	NA			
	tract Laboratory_					
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		



envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Date

•





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405218

Job Number: 24015-0001

Received: 5/16/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 5/17/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/17/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405218 Date Received: 5/16/2024 9:30:00AM

Chance Dixon,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2024 9:30:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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		Sample Summary				
Vertex Resource Services Inc.		Project Name: Project Number:	Zeus SWD Line 24015-0001		Reported:	
3101 Boyd Drive					Reported:	
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/17/24 15:44	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
WES24 - 53 4FT	E405218-01A	Soil	05/15/24	05/16/24	Glass Jar, 2 oz.	
WES24 - 54 4FT	E405218-02A	Soil	05/15/24	05/16/24	Glass Jar, 2 oz.	
WES24 - 55 4FT	E405218-03A	Soil	05/15/24	05/16/24	Glass Jar, 2 oz.	
WES24 - 56 4FT	E405218-04A	Soil	05/15/24	05/16/24	Glass Jar, 2 oz.	

C


	S	ample D	ata				
Vertex Resource Services Inc.	Project Name	: Zeus	s SWD Line	e			
3101 Boyd Drive	Project Numb	ber: 240	15-0001				Reported:
Carlsbad NM, 88220	Project Mana	ger: Cha	nce Dixon				5/17/2024 3:44:44PM
	W	ES24 - 53 4F	Т				
		E405218-01					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: E	G		Batch: 2420138
Benzene	ND	0.0250	1	1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250	1	1	05/16/24	05/16/24	
Toluene	ND	0.0250	1	1	05/16/24	05/16/24	
p-Xylene	ND	0.0250	:	1	05/16/24	05/16/24	
p,m-Xylene	ND	0.0500	:	1	05/16/24	05/16/24	
Total Xylenes	ND	0.0250	]	1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		103 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: EG			Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		103 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	v		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0	:	1	05/16/24	05/17/24	
Dil Range Organics (C28-C36)	ND	50.0	:	1	05/16/24	05/17/24	
Surrogate: n-Nonane		99.8 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: D	Т		Batch: 2420151
Chloride	86.2	20.0		1	05/16/24	05/17/24	



	S	ample D	ata				
Vertex Resource Services Inc.	Project Name	: Zeus	s SWD Lii	ne			
3101 Boyd Drive	Project Numb		5-0001				Reported:
Carlsbad NM, 88220	Project Manag	ger: Cha	nce Dixon				5/17/2024 3:44:44PM
	W	ES24 - 54 4F	Т				
		E405218-02					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
o-Xylene	ND	0.0250		1	05/16/24	05/16/24	
p,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Total Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: EG			Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
Surrogate: n-Nonane		95.5 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2420151
Chloride	44.8	20.0		1	05/16/24	05/17/24	



	Sa	ample D	ata				
Vertex Resource Services Inc.	Project Name:	Zeus	SWD Li	ne			
3101 Boyd Drive	Project Numbe	er: 240	5-0001				Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon				5/17/2024 3:44:44PM
	WI	ES24 - 55 4F	Т				
		E405218-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
o-Xylene	ND	0.0250		1	05/16/24	05/16/24	
p,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Total Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	EG		Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
Surrogate: n-Nonane		95.8 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2420151
Chloride	231	20.0		1	05/16/24	05/17/24	



	Sa	ample D	ata				
Vertex Resource Services Inc.	Project Name:	Zeus	s SWD Lii	ne			
3101 Boyd Drive	Project Numbe	er: 2401	5-0001				Reported:
Carlsbad NM, 88220	Project Manag	er: Cha	nce Dixon				5/17/2024 3:44:44PM
	WI	ES24 - 56 4F	Т				
		E405218-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	EG		Batch: 2420138
Benzene	ND	0.0250		1	05/16/24	05/16/24	
Ethylbenzene	ND	0.0250		1	05/16/24	05/16/24	
Toluene	ND	0.0250		1	05/16/24	05/16/24	
o-Xylene	ND	0.0250		1	05/16/24	05/16/24	
p,m-Xylene	ND	0.0500		1	05/16/24	05/16/24	
Total Xylenes	ND	0.0250		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	EG		Batch: 2420138
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/16/24	05/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/16/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		05/16/24	05/16/24	
Surrogate: Toluene-d8		102 %	70-130		05/16/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2420136
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/17/24	
Surrogate: n-Nonane		110 %	50-200		05/16/24	05/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2420151
Chloride	205	20.0		1	05/16/24	05/17/24	



# QC Summary Data

Vertex Resource Services Inc.		Project Name:	Ze	us SWD Line					Done 4- J.
3101 Boyd Drive		Project Number:		015-0001					Reported:
-		5							5/17/2024 3:44:44PM
Carlsbad NM, 88220		Project Manager:	Ch	ance Dixon					5/1//2024 5:44:44PM
	V	olatile Organic	Сотро	inds by EPA	A 8260E	3			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420138-BLK1)						I	Prepared: 0	5/16/24 Ai	nalyzed: 05/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2420138-BS1)						I	Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.56	0.0250	2.50		103	70-130			
o-Xylene	2.77	0.0250	2.50		111	70-130			
p,m-Xylene	5.57	0.0500	5.00		111	70-130			
Total Xylenes	8.34	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
LCS Dup (2420138-BSD1)						I	Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Benzene	2.60	0.0250	2.50		104	70-130	0.696	23	
Ethylbenzene	2.70	0.0250	2.50		108	70-130	0.333	27	
Toluene	2.54	0.0250	2.50		101	70-130	1.02	24	
o-Xylene	2.88	0.0250	2.50		115	70-130	3.92	27	
p,m-Xylene	5.79	0.0500	5.00		116	70-130	3.92	27	
Total Xylenes	8.68	0.0250	7.50		116	70-130	3.92	27	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
	0 (82		0.500		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		90.5	70-150			



# **QC Summary Data**

		QC D	umm	ary Data					
Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Zeus SWD Line 24015-0001 Chance Dixon					<b>Reported:</b> 5/17/2024 3:44:44PM
Cariboar (M, 00220	No	nhalogenated (			5D - G	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
			g.ng		70	70	70	70	110103
Blank (2420138-BLK1)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2420138-BS2)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.5	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS Dup (2420138-BSD2)							Prepared: 0	5/16/24 A	nalyzed: 05/16/24
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130	1.86	20	
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



# **QC Summary Data**

Repo	orted:
5/17/2024	3:44:44PM
Analyst	: NV
RPD Limit	
%	Notes
: 05/16/24 Analyzed: 0	5/17/24
: 05/16/24 Analyzed: 0	5/17/24
: 05/16/24 Analyzed: 0	5/17/24
20	
:	Analyst RPD Limit % 05/16/24 Analyzed: 0 05/16/24 Analyzed: 0 05/16/24 Analyzed: 0



# **QC Summary Data**

		•		•					
Vertex Resource Services Inc.		Project Name:		eus SWD Line	;				Reported:
3101 Boyd Drive Carlsbad NM, 88220		Project Number: Project Manager:		4015-0001 hance Dixon					5/17/2024 3:44:44PM
Calisbau Nivi, 88220		Floject Manager	. c						5/1//2024 5.44.441 141
		Anions	by EPA 3	300.0/9056A	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420151-BLK1)							Prepared: 0	5/16/24 A	Analyzed: 05/17/24
Chloride	ND	20.0							
LCS (2420151-BS1)							Prepared: 0	5/16/24 A	Analyzed: 05/17/24
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2420151-BSD1)							Prepared: 0	5/16/24 A	Analyzed: 05/17/24
Chloride	249	20.0	250		99.7	90-110	0.351	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	_ ••-		
Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/17/24 15:44

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Dro	oct	Information
PIO	ect	Information

Released to Imaging: 7/11/2024 2:56:53 PM

Client: Vortex CTAPROCK)	Bill To		1		Lab I	Use O	only				TA	T	EPA P	rogram
roject: Zeus SWOLine	Attention: Tap Rock		Lab W	0#		Job	Nur	mber	1D	2D	3D	Standard	CWA	SDWA
ject Manager: Chance Dixon	Address: On file		E4C	52	218			5-0001		V		-	1.2	
ddress: Ocfile	City, State, Zip			_		Ana	lysis a	and Metho	t	_				RCRA
ty, State, Zip J None: 5759881472	Phone:		O by	51.5	-			1.1			-	-	Chatta	
ail: Cpixon & Veitex.ca	Email: V		/OR	1								NIMA CO	State	TTVI
port due by:			DRO	120	8260	10	300.0		NN	×		NIVI CC	OT AL	1
The Decision		Lab	SRO/	bv 8	o y o	Is 60	ide 3			1.1.1		-	1 1	
Time Date Matrix No. of Containers Sample II		Number	TPH GRO/DRO/ORO by	8015 BTEX bv 8021	VOC by	Metals 6010	Chloride.		BGDOC	BGDOC			Remarks	
00 05/15/29 5 1 WES:	4-53 4FT	1	4	V	1		V					201		
		2		1			1		-					
		3		+		-	+			-				
	24-55 4Ft								_					
1:40 J J J WES	24-56 4FT	4		1			1							
												10		
				-		-	-			_				
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		-		-	+	-			-	-	1.000			
								1				1		
itional Instructions: CC: Wlu みとしをはち	Quertex. Ca													
d sampler), attest to the validity and authenticity of this s or time of collection is considered fraud and may be grou				on,								eived on ice the da ess than 6 °C on sub		led or
	Time Received by: (Signature)		1	e /		-			La	b Us	e Onl	v		
Inquished by: (Signature) Date 5 - 15 24	1500 (VP	Sil5	241	51	ÓC	Rec	ceive	d on ice:		YN		'		
nquished by: (Signa)ure) Date 5-15-24	Time Received by: (Signature)	S is	Tin						~	,		-		
ingwished by: (Signature) Date	Time Received by: (Signature)	Date	Tin	ie Ol	00	T1			T2			<u>– T3</u>		
J. A. 5.13.24	2400 All	510	240	73	0	AV	G Ter	mp°c_L	ł					
ple Matrix S- Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O -	Dther	Containe	Type:	- glas	55, p -	poly/	plasti	ic, ag - amb	er gla	iss, v	- VOA			
	ported unless other arrangements are made. Haza ed by the laboratory with this COC. The liability of								clien	t expe	ense.	The report for t	he analysis	of the

Received by OCD: 6/4/2024 3:34:34 PM

# **Envirotech Analytical Laboratory**

# Sample Receipt Checklist (SRC)

	Vertex Resource Services Inc.	Date Received:	05/16/24	09:30	Work Order ID:	E405218
Phone:	(575) 748-0176 E	Date Logged In:	05/15/24	18:21	Logged In By:	Alexa Michaels
Email:	cdixon@vertex.ca	Due Date:	05/17/24	17:00 (1 day TAT)		
<u>Chain o</u> f	f Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
	he number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	<u>Cooler</u>					
-	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
Sample /	Container	-				
-	aqueous VOC samples present?		No			
15 4 7	VOC samples collected in VOA Vials?		NA			
15. Are \						
	e head space less than 6-8 mm (pea sized or less)?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA			
16. Is the 17. Was a	· · · · ·					
16. Is the 17. Was a 18. Are r	a trip blank (TB) included for VOC analyses?	rs collected?	NA			
16. Is the 17. Was a 18. Are r	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container	rs collected?	NA Yes			
<ol> <li>16. Is the</li> <li>17. Was a</li> <li>18. Are r</li> <li>19. Is the</li> <li>Field La</li> </ol>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container		NA Yes			
<ul> <li>16. Is the</li> <li>17. Was a</li> <li>18. Are r</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> <li>S</li> </ul>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID?		NA Yes			
<ul> <li>16. Is the</li> <li>17. Was a</li> <li>18. Are r</li> <li>19. Is the</li> <li>Field La</li> <li>20. Were</li> <li>S</li> <li>L</li> </ul>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		NA Yes Yes Yes Yes			
16. Is the 17. Was a 18. Are r 19. Is the Field La 20. Were S I C	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		NA Yes Yes Yes			
16. Is the 17. Was a 18. Are r 19. Is the Field La 20. Were S C Sample J	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	nation:	NA Yes Yes Yes Yes			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S <b>C</b> <b>Sample</b> 21. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres	nation:	NA Yes Yes Yes Yes No			
16. Is the 17. Was a 18. Are r 19. Is the Field La 20. Were S C Sample 1 21. Does 22. Are s	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were press sample(s) correctly preserved?	nation: served?	NA Yes Yes Yes Yes No NA			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S C <b>Sample</b> 1 21. Does 22. Are s 24. Is lab	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met	nation: served?	NA Yes Yes Yes Yes No			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S C <b>Sample</b> 1 21. Does 22. Are s 24. Is lab <u>Multipha</u>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix	nation: served? tals?	NA Yes Yes Yes Yes No NA No			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S C Sample 1 21. Does 22. Are s 24. Is lab Multiph: 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container <u>bel</u> field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved met <u>ase Sample Matrix</u> the sample have more than one phase, i.e., multiphase	nation: served? tals? ?	NA Yes Yes Yes Yes No NA No			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S <b>Sample J</b> 21. Does 22. Are s 24. Is lab <b>Multiph</b> 26. Does 27. If yes	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyzed	nation: served? tals? ?	NA Yes Yes Yes Yes No NA No			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S C <b>Sample 1</b> 21. Does 22. Are s 24. Is lab <b>Multiph</b> 26. Does 27. If yes	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyze ract Laboratory	nation: served? als? ? ed?	NA Yes Yes Yes Yes No NA No No			
16. Is the 17. Was a 18. Are r 19. Is the <b>Field La</b> 20. Were S C <b>Sample</b> 1 21. Does 22. Are s 24. Is lab <b>Multiph</b> 26. Does 27. If yes <b>Subcont</b> 28. Are s	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container bel field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation the COC or field labels indicate the samples were press sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyzed	nation: verved? tals? ? ed? ?	NA Yes Yes Yes Yes No NA No	Subcontract Lab: na		

- (

Date



Signature of client authorizing changes to the COC or sample disposition.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Vertex Resource Services Inc.

Project Name:

Zeus SWD Line

Work Order: E405276

Job Number: 24015-0001

Received: 5/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/25/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 5/25/24

Chance Dixon 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Zeus SWD Line Workorder: E405276 Date Received: 5/21/2024 8:00:00AM

Chance Dixon,



Page 373 of 397

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2024 8:00:00AM, under the Project Name: Zeus SWD Line.

The analytical test results summarized in this report with the Project Name: Zeus SWD Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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Envirotech Web Address: www.envirotech-inc.com

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v		Sample Sum	6		
Vertex Resource Services Inc.		Project Name:	Zeus SWD Line		Reported:
3101 Boyd Drive		Project Number:	24015-0001		Reporteu.
Carlsbad NM, 88220		Project Manager:	Chance Dixon		05/25/24 09:05
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
WES24-57	E405276-01A	Soil	05/20/24	05/21/24	Glass Jar, 2 oz.



	29	imple D	ata				
Vertex Resource Services Inc.	Project Name:	Zeu	s SWD Line				
3101 Boyd Drive	Project Numbe	er: 240	5-0001			Reported:	
Carlsbad NM, 88220	Project Manage	er: Cha	nce Dixon	5/25/2024 9:05:25AM			
	,	WES24-57					
	]	E405276-01					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2421055	
Benzene	ND	0.0250	1	05/21/24	05/22/24		
thylbenzene	ND	0.0250	1	05/21/24	05/22/24		
°oluene	ND	0.0250	1	05/21/24	05/22/24		
-Xylene	ND	0.0250	1	05/21/24	05/22/24		
,m-Xylene	ND	0.0500	1	05/21/24	05/22/24		
Total Xylenes	ND	0.0250	1	05/21/24	05/22/24		
urrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	05/21/24	05/22/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2421055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/22/24		
urrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	05/21/24	05/22/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2421068	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/24	05/23/24		
Dil Range Organics (C28-C36)	ND	50.0	1	05/21/24	05/23/24		
urrogate: n-Nonane		106 %	50-200	05/21/24	05/23/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: IY		Batch: 2421056	
Chloride							

# **Sample Data**



# **QC Summary Data**

			Reported:						
			5/25/2024 9:05:25AM						
	Volatile Organics by EPA 8021B								
Rec c Limits	RPD	RPD Limit							
%	%	%	Notes						
	Prepared: 0	5/21/24 A	analyzed: 05/22/24						
3 70-130									
	Prepared: 0	5/21/24 A	analyzed: 05/24/24						
4 70-130									
6 70-130									
2 70-130									
9 70-130									
3 70-130									
8 70-130									
1 70-130									
	Prepared: 0	5/21/24 A	analyzed: 05/24/24						
8 70-130	7.82	20							
6 70-130	7.72	20							
6 70-130	7.84	20							
2 70-130	7.95	20							
4 70-130	7.68	20							
0 70-130	7.77	20							
1 70-130									
	c Limits % % % % % % % % % % % % % % % % % % %	c Limits RPD % % % Prepared: 0 3 70-130 Prepared: 0 4 70-130 6 70-130 2 70-130 9 70-130 9 70-130 3 70-130 1 70-130 Prepared: 0 8 70-130 70-130 Prepared: 0 8 70-130 7.72 6 70-130 7.82 6 70-130 7.84 2 70-130 7.84 2 70-130 7.95 4 70-130 7.77	c         Limits         RPD         Limit           %         %         %         %           Prepared:         05/21/24         A           3         70-130         Prepared:         05/21/24         A           4         70-130         Prepared:         05/21/24         A           5         70-130         Prepared:         05/21/24         A           6         70-130         Prepared:         05/21/24         A           8         70-130         7.82         20         A           6         70-130         7.82         20         A           6         70-130         7.84         20         2         A           6         70-130         7.95         20         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         <						



# **QC Summary Data**

		QU N	, u III III	ary Data	•				
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number	: 2	Zeus SWD Line 24015-0001					Reported:
Carlsbad NM, 88220		Project Manager	r: (	Chance Dixon					5/25/2024 9:05:25AM
	No	onhalogenated	Organics	by EPA 801	5D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421055-BLK1)	ND	20.0					Prepared: 0	5/21/24 <i>A</i>	Analyzed: 05/22/24
Gasoline Range Organics (C6-C10) Gurrogate: 1-Chloro-4-fluorobenzene-FID	8.60	20.0	8.00		108	70-130			
LCS (2421055-BS2)							Prepared: 0	5/21/24 <i>A</i>	Analyzed: 05/24/24
Gasoline Range Organics (C6-C10)	58.8	20.0	50.0		118	70-130			
urrogate: 1-Chloro-4-fluorobenzene-FID	8.74		8.00		109	70-130			
LCS Dup (2421055-BSD2)							Prepared: 0	5/21/24 A	Analyzed: 05/24/24
Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130	5.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		8.00		110	70-130			



# **QC Summary Data**

		QC D	umma	ii y Data					
Vertex Resource Services Inc. 3101 Boyd Drive		Project Name: Project Number:		eus SWD Line 1015-0001					Reported:
Carlsbad NM, 88220		Project Manager:	Cl	hance Dixon					5/25/2024 9:05:25AM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421068-BLK1)							Prepared: 0	5/21/24 A	analyzed: 05/23/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.6		50.0		111	50-200			
LCS (2421068-BS1)							Prepared: 0	5/21/24 A	analyzed: 05/23/24
Diesel Range Organics (C10-C28)	225	25.0	250		90.1	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			
LCS Dup (2421068-BSD1)							Prepared: 0	5/21/24 A	analyzed: 05/23/24
Diesel Range Organics (C10-C28)	244	25.0	250		97.6	38-132	7.96	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



# **QC Summary Data**

		•		v					
Vertex Resource Services Inc.		Project Name:	Ze	eus SWD Line	e				Reported:
3101 Boyd Drive	Project Number:	24	015-0001						
Carlsbad NM, 88220		Project Manager	: Cl	hance Dixon					5/25/2024 9:05:25AM
		Anions		Analyst: IY					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421056-BLK1)							Prepared: 0:	5/21/24 A	nalyzed: 05/21/24
Chloride	ND	20.0							
LCS (2421056-BS1)							Prepared: 0:	5/21/24 A	analyzed: 05/21/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2421056-BSD1)							Prepared: 0:	5/21/24 A	analyzed: 05/21/24
Chloride	252	20.0	250		101	90-110	0.266	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Vertex Resource Services Inc.	Project Name:	Zeus SWD Line	
3101 Boyd Drive	Project Number:	24015-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Chance Dixon	05/25/24 09:05

ND	Analyte NOT DETECTED at or above the reporting limit	
----	--	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released
to
Imaging:
1
11
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2:56:53
PM

								Cha	in of C	uste	ody													Page	of		
	Clie	nt Inform	ation				Invoi	ce Informa	tion			Lab Use Only								T	AT		State				
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Time ampled	Date Sampled	Matrix	No. of Container	3		Sa	mple ID			Field Filter	Lab Numt	er		GRO/DRO by 8015	BTEX by 8021		BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remark	; 		
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ote: Sam	rix( <b>§)</b> - Soil, <b>Sd</b> - So bles are discarde	ed 14 days a	after resu	lts are report	ed unless ot				ous sample	es will		rned t	o cliei	nt or c	lispose								analysis c	f the abov	e samples		
	only to those sa																										

# **Envirotech Analytical Laboratory**

Client:	Vertex Resource Services Inc. Da	te Received:	05/21/24	08:00		Work Order ID:	E405276
Phone:	(575) 748-0176 Da	te Logged In:	05/20/24	17:44		Logged In By:	Alexa Michaels
Email:	cdixon@vertex.ca Du	ie Date:	05/23/24	17:00 (2 day TAT)			
Chain o	of Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: 0	Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
	all samples received within holding time?	·	Yes				
	Note: Analysis, such as pH which should be conducted in the	e field,				Common	ts/Resolution
<b>a</b> 1	i.e, 15 minute hold time, are not included in this disucssion.					<u>Commen</u>	ts/ Resolution
	Turn Around Time (TAT)		V				
	he COC indicate standard TAT, or Expedited TAT?		Yes				
Sample			V				
	a sample cooler received?		Yes				
-	e e		Yes				
	the sample(s) received intact, i.e., not broken?		Yes				
	e custody/security seals present?		No				
-	es, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling	ceived w/i 15	Yes				
	o visible ice, record the temperature. Actual sample tem	iperature: <u>4</u>	<u>c</u>				
-	<u>Container</u>		N				
	aqueous VOC samples present? VOC samples collected in VOA Vials?		No NA				
	the head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	e appropriate volume/weight or number of sample containers	collected?	Yes				
Field La		conceleu?	105				
	e field sample labels filled out with the minimum information of the minimu	ation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name?		Yes				
-	Preservation						
	s the COC or field labels indicate the samples were prese	rved?	No				
	sample(s) correctly preserved?	1.0	NA				
	b filteration required and/or requested for dissolved meta	1S /	No				
-	hase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	es, does the COC specify which phase(s) is to be analyzed	1?	NA				
Subcont	tract Laboratory						
	samples required to get sent to a subcontract laboratory?		No				
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lal	o: NA		
<b>CI:</b> (1)	Instruction						

Signature of client authorizing changes to the COC or sample disposition.



**APPENDIX F – Depth to Groundwater Drilling** 



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. (W C 04824	/ELL NO	.)		WELL TAG ID NO.		OSE FILE NO( C-4824	S).			
OCATI	WELL OWNER M Tap Rock Res						PHONE (OPTI	ONAL)			
VELL LO	WELL OWNER MAILING ADDRESS 523 Park Point DR. Suite 200						CITY Golden		STATE CO 80401	ZIP	
1. GENERAL AND WELL LOCATION	WELL LOCATION	LAT	TITUDE	EGREES 32	13 2	conds 8.04 N		REQUIRED: ONE TEN	TH OF A SECOND		
ENER	(FROM GPS)		NGITUDE	-103 D STREET ADDRE	34 3 SS AND COMMON LANI	6.24 W		QUIRED: WGS 84	IERE AVAILABLE		
1.0											
	LICENSE NO. 1833		NAME OF LICENSED		Jason Maley			NAME OF WELL DR V	ILLING COMPANY ision Resources		
	drilling star 4-16-24		DRILLING ENDED 4-16-24	DEPTH OF COMPLETED WELL (FT) BOR 105'			le depth (ft) 105'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		T)	
z	COMPLETED W	ELL IS:	ARTESIAN *add Centralizer info be	DRY HOLE	SHALLOW (UN	CONFINED)		WATER LEVEL PLETED WELL (	1	DATE STATIC MEASURED 4-16-24	
ATIO	DRILLING FLUID: AIR MUD ADDITIVES - SPEC							Lourou			
2. DRILLING & CASING INFORMATION	DRILLING METHOD: CROTARY HAMMER CABLE TO			TOOL OTHER - SI	DOL DOL OTHER - SPECIFY:		CHECK HERE IF PITLESS ADAPTER INSTALLED				
	DEPTH (feet bgl)     BORE HOLE       FROM     TO     DIAM       (inches)     0     95     6"		DIAM	(include each casing string, and CO		CON	ASING NECTION TYPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
& CA			PVC 2" SCH40 T		'hread	2"	SCH40	N/A			
2. DRILLING	95	105	6"	PV	C 2" SCH40	T	hread	2"	SCH40	.02	
	DEPTH (feet bgl) BORE HOLE			LIST ANNULAR SEAL MATERIAL AND GRAVEL PAO RANGE BY INTERVAL			AMOUNT M			METHOD OF	
MATERIAI	FROM	то	DIAM. (inches)	*(if using Centr	*(if using Centralizers for Artesian wells- indicate the None pulled and plugged			(cubic feet)	PLACI	EMENT	
3. ANNULAR MATERIAL											
EGE										100 100000	
FOR	OSE INTERNA	L USE			POD NO.		WR-20 TRN N	WELL RECORD &	& LOG (Version 09	/22/2022)	
LOC	ATION				1		WELL TAG II	D NO.	PAG	E 1 OF 2	

	DEPTH (i	eet bgl)	THICKNEES	COLOR AND TYPE OF MATERIAL	ENCOUN	ITERED -	WA	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES (attach supplemental sheets to fully		Construction and the second second		RING? / NO)	WATER- BEARING ZONES (gpm)
	0	20	20'	Brown dirt with white c	aliche		Y	√ N	
	20	60	40'	Red and Brown clay with s	mall rock		Y	√ N	
	60	110	50'	Gray Green Rock with Fi	ne sand		Y	√ N	
-							Y	N	
Ī			1				Y	N	
1							Y	N	
WEL							Y	N	
in l							Y	Ν	
3							Y	N	
							Y	N	-
							Y	N	
TEN							Y	N	
4. HTDROGEOLOGIC LOG OF WELL							Y	N	
			1				Y	N	
4	· · · · · · · · · · · · · · · · · · ·	11					Y	N	
	-	14					Y	N	
							Y	N	
Ī							Y	N	
							Y	N	
Ī		1					Y	N	
							Y	N	
	METHOD U			DF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:Dry ho	ole		L ESTII	MATED D (gpm):	0
	WELL TES			CH A COPY OF DATA COLLECTED DURIN					
IESI; KIU SUFEKVISIUN	MISCELLA	NEOUS IN	FORMATION:						
	PRINTNAN	E(S) OF T	RILL RIG SUDED	/ISOR(S) THAT PROVIDED ONSITE SUPER'	VISIONO	F WELL CONSTRUC	TION	ТНЕР ТІ	IAN LICENSEE
	Jason Maley		KILL KIO SUPEK	150K(3) 111A1 1KOVIDED OKSITE SOLEK	VISION	I WEEL CONSTRUC	INON	THER II	IAN LICENSEE
0. SIGNALUNE	CORRECT F	ECORD C	OF THE ABOVE D	ES THAT, TO THE BEST OF HIS OR HER KI ESCRIBED HOLE AND THAT HE OR SHE W DAYS AFTER COMPLETION OF WELL DR Jason Maley	ILL FILE	GE AND BELIEF, TI THIS WELL RECOR	HE FORI		IS A TRUE AND ATE ENGINEER
0.0		SIGNAT	TURE OF DRILLEI		_	4	4/a	DATE	xy
	OSE INTERI	JAI HEE	i maradi ad			WR-20 WELL REC	CORD &	LOG (Va	rsion 09/22/2022
-	E NO.	VAL USE		POD NO.	1	TRN NO.	UKD &	LOG(Ve	131011 09/22/2022
L ILI	CTRC/10/2021								



# PLUGGING RECORD



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

### I. GENERAL / WELL OWNERSHIP:

Vell	owner: Taprock Resources			Phone No.:		
ail	ng address: 523 Park Point D	Drive Suite 200				
	Coldon		State:		со	Zip code: 80401
V	VELL PLUGGING INFOR	MATION:				
	Name of well drilling con	npany that plugg	ged well: Y	/ision Resou	rces	
	New Mexico Well Driller	License No.: 1	833			Expiration Date: 10-7-25
	New Mexico Well Driller Well plugging activities v Jason Maley			owing well d	riller(s)/rig su	
	Well plugging activities v	vere supervised				
)	Well plugging activities v Jason Maley	vere supervised		_ Date we		pervisor(s): oncluded: <u>4-22-24</u>

- Depth of well confirmed at initiation of plugging as: <u>105'</u> ft below ground level (bgl), by the following manner: <u>Tape</u>
- 7) Static water level measured at initiation of plugging: <u>N/A</u> ft bgl
- 9) Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0	155	155	Tremie pipe Open Hole	
-	Wyoming Bentonite				
-	-				
1	-				
	- 105'				
L. SIGN	ATURE:	MULTIPLY cubic feet x 7 cubic yards x 20	BY AND OBTAIN 7.4805 = gallons 1.97 = gallons		

### For each interval plugged, describe within the following columns:

### II

I, Jason Maley , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2



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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

Action 350762

QUESTIONS			
Operator:	OGRID:		
TAP ROCK OPERATING, LLC	372043		
523 Park Point Drive	Action Number:		
Golden, CO 80401	350762		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

### QUESTIONS

Prerequisites		
Incident ID (n#)	nRM2026231125	
Incident Name	NRM2026231125 ZEUS SWD LINE @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Approved	

#### Location of Release Source

Please answer all the questions in this group.		
Site Name	ZEUS SWD LINE	
Date Release Discovered	09/03/2020	
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

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 20 BBL   Recovered: 5 BBL   Lost: 15 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 350762

**QUESTIONS** (continued) Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 350762 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)						
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.					
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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	False				
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	Release materials are not longer on site.				
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.				
Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.					
I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager				

Email: cdixon@vertex.ca Date: 06/04/2024

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

QUESTIONS, Page 3

Action 350762

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QUESTIONS (continued)	
Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	350762
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (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	id the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provi Requesting a remediation plan approval with this submission Attach a comprehensive report demonstrating the lateral and vertical extents of soil contar	ded to the appropriate district office no later than 90 days after the release discovery date. Yes
	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contarr	
	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each,	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	18600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
which includes the anticipated timelines for beginning and completing the remediation.	mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
On what estimated date will the remediation commence	04/15/2024
On what date will (or did) the final sampling or liner inspection occur	04/15/2024
On what date will (or was) the remediation complete(d)	07/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	28000
What is the estimated volume (in cubic yards) that will be reclaimed	5000
What is the estimated surface area (in square feet) that will be remediated	28000
What is the estimated volume (in cubic yards) that will be remediated	5000
These estimated dates and measurements are recognized to be the best guess or calculation	n at 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

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

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District III

Operator

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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** (con

QUESTIONS, Page 4

Action 350762

1000 Rio Brazos Rd., Aztec, NM 87410

TAP ROCK OPERATING. LLC 523 Park Point Drive Golden, CO 80401

nued)
GRID:
372043
tion Number:
350762
tion Type:
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal Not answered OR which OCD approved well (API) will be used for off-site disposal 30-025-41122 JACKSON UNIT #011H OR is the off-site disposal site, to be used, out-of-state No OR is the off-site disposal site, to be used, an NMED facility No (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) No (In Situ) Soil Vapor Extraction No (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) No (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) No (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) No Ground Water Abatement pursuant to 19.15.30 NMAC No OTHER (Non-listed remedial process) No Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Name: Chance Dixon Title: Project Manager I hereby agree and sign off to the above statement Email: cdixon@vertex.ca Date: 06/04/2024

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

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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

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Action 350762

QUESTIONS (continued)	
Operator: TAP ROCK OPERATING, LLC	OGRID: 372043
523 Park Point Drive Golden, CO 80401	Action Number: 350762
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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

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Action 350762

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**QUESTIONS** (continued) Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 350762 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	344982
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/24/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	10488	
What was the total volume (cubic yards) remediated	1900	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	10488	
What was the total volume (in cubic yards) reclaimed	1900	
Summarize any additional remediation activities not included by answers (above)	The site was remediated and reclaimed with the top four feet meeting strictest closure criteria.	
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.		
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by 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 ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.	

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Email: cdixon@vertex.ca Date: 06/04/2024
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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

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Action 350762

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QUESTIONS (continued)	
Operator: TAP ROCK OPERATING, LLC	OGRID: 372043
523 Park Point Drive Golden, CO 80401	Action Number: 350762
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

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

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

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Action 350762

CONDITIONS OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 350762

> Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created Bv		Condition Date
Dy		Date
nvelez	None	7/11/2024