

Jillson East Rinn 22H-M268

SWSW Sec. 22-T2N-R68W

Facility ID: 434171

Spill/Release Point ID: 483380

Form 19 Data Package

December 2022

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC



FIELD NOTES AND PHOTO LOG

SITE NAME: Jillson-East Rinn 22H-M268							DATE: 12/28/2022	REM. PROJECT #:	WEATHER: Cloudy, 40's (F)
SITE DIRECTIONS: 18 & Aggregate Blvd. N 0.1 mi, 0.2 mi E INTO							CLIENT: CRESTONE PEAK RESOURCES OPERATING LLC		
LEGALS AND LAT/LONG: 40.119628, -104.994890							TASMAN PERSONNEL: Dylan Miller		
SOIL TYPES: Silty Sand - SM							SURFACE GRADIENT: West		
SURROUNDING LAND USE: Cropland							CROP: Corn		
SOIL SAMPLING							FACILITY INFRASTRUCTURE		
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT	Quantity	
							Above Ground Storage Tank (AST)		
12/28/2022 12:30	BG01@10"	0.0	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel		
12/28/2022 12:35	BG02@10"	0.0	No Staining	No Odor	Yes	Lab	Separator	1	
12/28/2022 12:40	BG03@10"	0.0	No Staining	No Odor	Yes	Lab	Emission Control Device (ECD)		
12/28/2022 12:45	BG04@10"	0.0	No Staining	No Odor	Yes	Lab	Dump Line		
12/28/2022 13:00	SEP-B01@1'	0.0	No Staining	No Odor	Yes	Lab	Wellhead		
12/28/2022 13:04	SEP-N01@1'	0.0	No Staining	No Odor	Yes	Lab	Flowline		
12/28/2022 13:08	SEP-N02@1'	0.0	No Staining	No Odor	Yes	Lab	Method of Closure		
12/28/2022 13:12	SEP-S01@1'	0.0	No Staining	No Odor	Yes	Lab	Footage Removed		
12/28/2022 13:16	SEP-E01@1'	0.0	No Staining	No Odor	Yes	Lab	Footaged Abandoned in Place		
12/28/2022 13:20	SEP-W01@1'	0.0	No Staining	No Odor	Yes	Lab	Other:		
							Soil Loads Removed		
							IMPACTED SOIL IDENTIFIED?		
							ESTIMATED VOLUME OF IMPACTS:		
							Date	Number	CY
							Total Removed	0	0
							Disposal Facility:		
							Groundwater Recovery		
							DATE GW ENCOUNTERED:	DEPTH:	
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
							LNAPL OR SHEEN OBSERVED ON GW?		
GROUNDWATER SAMPLING							Date	BBLs	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?			
							Total Removed	0	
							Disposal Facility:		



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Surrounding environment facing N				Notes/Conditions: Surrounding environment facing E			

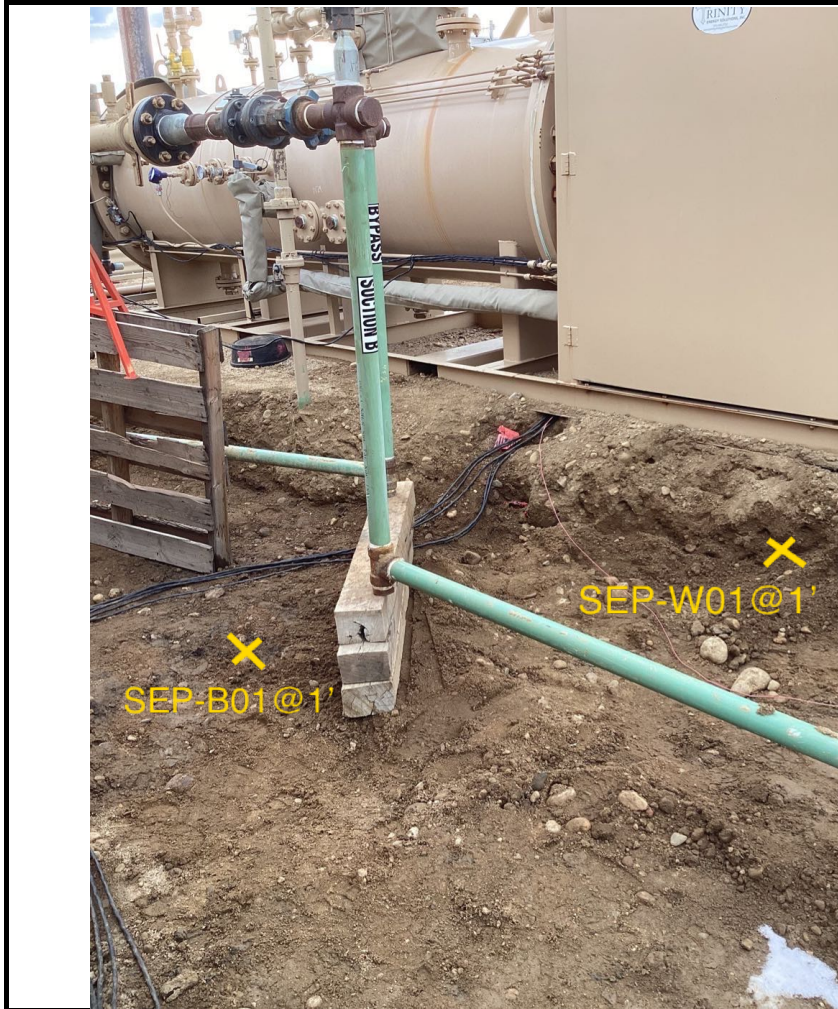


Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Surrounding environment facing S				Notes/Conditions: Surrounding environment facing W			



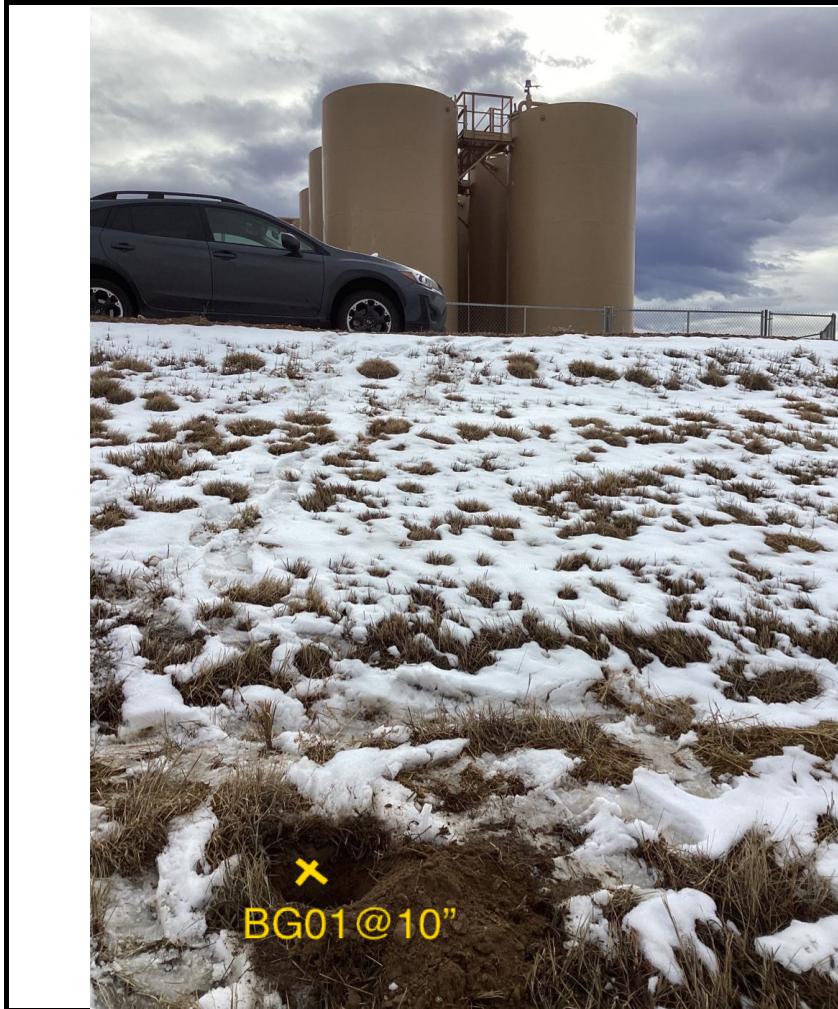
Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing NE			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing N			



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing SW			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing SSW			



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing S			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing W			



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing W			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening and sampling locations, facing W			

FIGURES

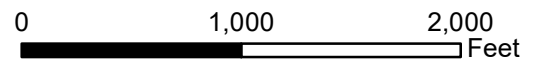
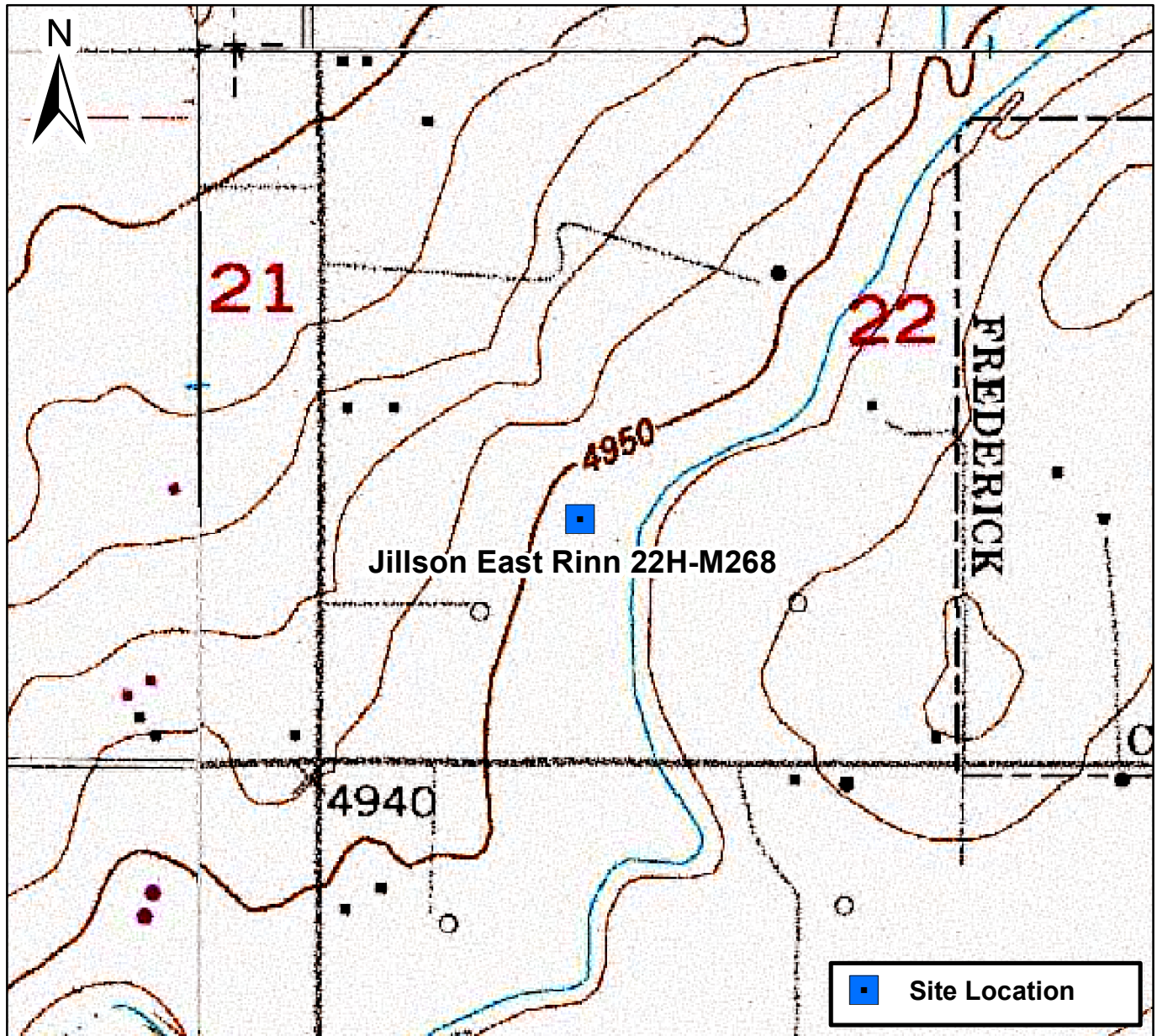
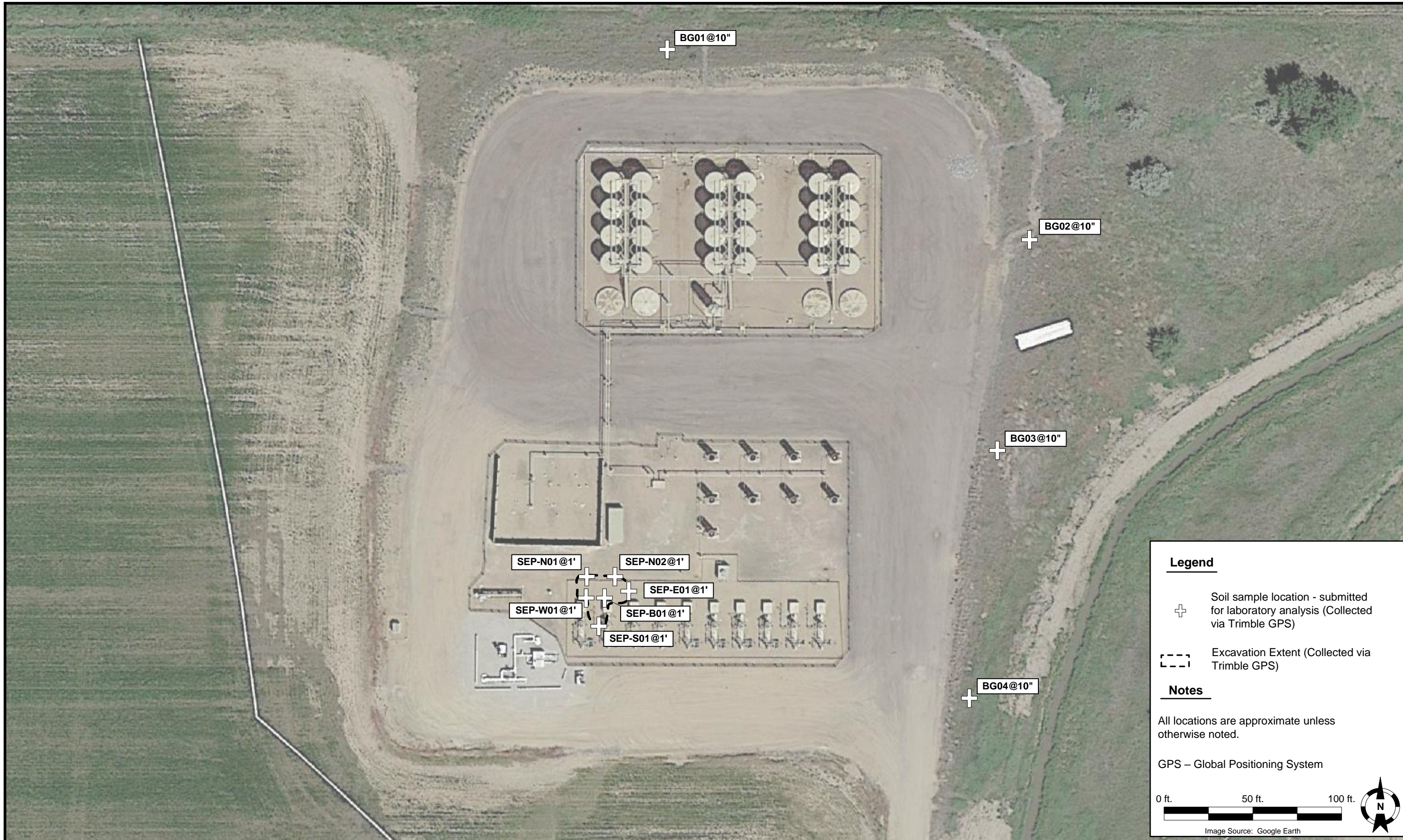


Figure 1

Site Location Map
 Jilson East Rinn 22H-M268
 SWSW Sec. 22-T2N-R68W
 Weld County, Colorado





Legend

- ⊕ Soil sample location - submitted for laboratory analysis (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)

Notes


All locations are approximate unless otherwise noted.

GPS – Global Positioning System

0 ft. 50 ft. 100 ft.

Image Source: Google Earth

DATE:	March 7, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Vogt



Tasman, Inc.
6855 W. 119th Avenue
Broomfield, Colorado 80020

Crestone Peak Resources Operating, LLC
Jillson East Rinn 22H-M268
 SWSW Sec. 22-T2N-R68W
 Weld County, Colorado

Soil Sample
Location Map

FIGURE
2

TABLES

TABLE 1
JILLSON EAST RINN 22H-M268
SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
BG01@10"	10"	12/28/2022	0.0	40.120510	-104.994747	0.8	Y
BG02@10"	10"	12/28/2022	0.0	40.120216	-104.994017	0.7	Y
BG03@10"	10"	12/28/2022	0.0	40.119890	-104.994082	0.7	Y
BG04@10"	10"	12/28/2022	0.0	40.119506	-104.994138	0.7	Y
SEP-B01@1'	1'	12/28/2022	0.0	40.119646	-104.994892	0.8	Y
SEP-E01@1'	1'	12/28/2022	0.0	40.119679	-104.994840	0.8	Y
SEP-N01@1'	1'	12/28/2022	0.0	40.119672	-104.994884	0.8	Y
SEP-N02@1'	1'	12/28/2022	0.0	40.119694	-104.994868	0.8	Y
SEP-S01@1'	1'	12/28/2022	0.0	40.119625	-104.994893	0.8	Y
SEP-W01@1'	1'	12/28/2022	0.0	40.119657	-104.994905	0.8	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

HC = Hydrocarbon

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

TABLE 2
JILLSON EAST RINN 22H-M268
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			1.2	490	5.8	58	2	500			30	27
SEP-B01@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-E01@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-N01@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-N02@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-S01@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SEP-W01@1'	1'	12/28/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 3
JILLSON EAST RINN 22H-M268
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SEP-B01@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-E01@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-N01@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-N02@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-S01@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP-W01@1'	1'	12/28/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 4
JILLSON EAST RINN 22H-M268
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SEP-B01@1'	1'	12/28/2022	1.89*	78.6	0.169	<0.30	10.3	7.15	9.35	0.520*	0.0846	32.9
SEP-E01@1'	1'	12/28/2022	1.75*	73.7	0.0813	<0.30	8.27	5.10	7.73	0.427*	0.0336	25.7
SEP-N01@1'	1'	12/28/2022	1.89*	59.5	0.109	<0.30	8.34	6.03	8.13	0.463*	0.0399	138
SEP-N02@1'	1'	12/28/2022	1.89*	62.1	0.107	<0.30	8.39	6.16	7.67	0.518*	0.0395	61.2
SEP-S01@1'	1'	12/28/2022	2.07*	51.4	0.0968	<0.30	7.49	5.37	7.24	0.530*	0.0388	25.2
SEP-W01@1'	1'	12/28/2022	2.02*	65.3	0.0937	<0.30	8.27	5.94	7.73	0.534*	0.0634	27.5
BACKGROUND												
BG01@10"	10"	12/28/2022	2.19	55.0	0.133	<0.30	8.93	8.92	7.77	0.565	0.0642	30.8
BG02@10"	10"	12/28/2022	2.31	88.7	0.122	<0.30	8.41	7.39	8.08	0.552	0.0599	30.6
BG03@10"	10"	12/28/2022	2.73	96.5	0.146	<0.30	10.2	8.52	10.0	0.617	0.0767	37.7
BG04@10"	10"	12/28/2022	2.47	66.3	0.150	<0.30	10.9	8.90	9.04	0.682	0.203	38.3
Average Background @ 10" x1.25			3.03	95.8	0.172	-	12.0	10.5	10.9	0.755	0.126	42.9

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Average background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 Standard

* Result exceeded the COGCC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

TABLE 5
JILLSON EAST RINN 22H-M268
SOIL ANALYTICAL DATA - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
SEP-B01@1'	1'	12/28/2022	8.26	1.02	0.256	0.489
SEP-E01@1'	1'	12/28/2022	8.43	1.11	0.202	0.108
SEP-N01@1'	1'	12/28/2022	8.13	2.62	0.594	0.237
SEP-N02@1'	1'	12/28/2022	8.14	1.27	0.375	0.163
SEP-S01@1'	1'	12/28/2022	8.40	1.11	0.200	0.152
SEP-W01@1'	1'	12/28/2022	7.78	0.0250	0.101	<0.0100
BACKGROUND						
BG01@10"	10"	12/28/2022	7.09	0.264	0.354	0.313
BG02@10"	10"	12/28/2022	7.13	0.227	0.256	0.171
BG03@10"	10"	12/28/2022	7.07	0.557	0.329	0.335
BG04@10"	10"	12/28/2022	6.85	0.113	0.307	0.597
Average Background @ 10"			7.04	0.290	0.312	0.354

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

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

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of COGCC Table 915-1: Soil Suitability for Reclamation Concentrations

Average background concentration

* Result exceeded the COGCC Table 915-1 standard, but was within site-specific background concentrations

LABORATORY ANALYTICAL DATA

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 05, 2023

Sam Vogt
Civitas Resources
650 Southgate Drive
Windsor, CO 80550

RE: Jillson-East Rinn 22H-M268

Work Order #2212550

Enclosed are the results of analyses for samples received by Summit Scientific on 12/28/22 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
 Project Manager: Sam Vogt

Reported:
 01/05/23 11:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B01@1'	2212550-01	Soil	12/28/22 13:00	12/28/22 17:55
SEP-N01@1'	2212550-02	Soil	12/28/22 13:04	12/28/22 17:55
SEP-N02@1'	2212550-03	Soil	12/28/22 13:08	12/28/22 17:55
SEP-S01@1'	2212550-04	Soil	12/28/22 13:12	12/28/22 17:55
SEP-E01@1'	2212550-05	Soil	12/28/22 13:16	12/28/22 17:55
SEP-W01@1'	2212550-06	Soil	12/28/22 13:20	12/28/22 17:55
BG01@10"	2212550-07	Soil	12/28/22 12:30	12/28/22 17:55
BG02@10"	2212550-08	Soil	12/28/22 12:35	12/28/22 17:55
BG03@10"	2212550-09	Soil	12/28/22 12:40	12/28/22 17:55
BG04@10"	2212550-10	Soil	12/28/22 12:45	12/28/22 17:55

CASE NARRATIVE

DRO/ORO data for this report is revised. The original data had erroneous hits due to baseline issues.

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

S₂

2212550

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Civitas/Tasman

Project Manager: Sam Vogt, Jacob Evans

Address: 6855 W 119th Ave

E-Mail: svogt@tasman-geo.com, jevans@civiresources.com

City/State/Zip: Broomfield CO 80020

Phone: 303-487-1228

Project Name: Jillson - East Rinn 22H-M268

Sampler Name: Dylan Miller

Project Number: COC75685

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN-8260B	TPH-(C6-C36)	pH, EC, SAR *	Boron -HWS**	TMB's(1,2,4)&(1,3,5)	PAH - 915	Metals - 915		
1	SEP-BØ1@1'	12/28/22	13ØØ	2			2			X				X	X	X	X	X	X	X	
2	SEP-NØ1@1'		13Ø4																		
3	SEP-NØ2@1'		13Ø8																		
4	SEP-SØ1@1'		1312																		
5	SEP-EØ1@1'		1316																		
6	SEP-WØ1@1'		132Ø																		
7	BGØ1@10"		123Ø																		
8	BGØ2@10"		1235																		
9	BGØ3@10"		124Ø																		
10	BGØ4@10"		1245																		

Relinquished by: <u>Dylan Miller</u>	Date/Time: <u>12/28/22 13ØØ</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>12/28/22 13ØØ</u>	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>9.4</u> Samples Intact: <u>Yes</u> No	Notes: <u>Methods:</u> *Soil paste ** hot water
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>12/28/22 1755</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/28/22 1755</u>		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2212500

Client: Civitas/Asman Client Project ID: Jilison-East Rmo 22H-M26B

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #:

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on Ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]
Custodian Printed Name

12-28-22 1755
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-B01@1'
2212550-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0317	79.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0716	12/29/22	12/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.70	37.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-B01@1'
2212550-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.489	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-B01@1'
2212550-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.89	0.224	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B
Barium	78.6	0.448	"	"	"	"	"	"
Cadmium	0.169	0.224	"	"	"	"	"	"
Copper	10.3	0.448	"	"	"	"	"	"
Lead	7.15	0.224	"	"	"	"	"	"
Nickel	9.35	0.448	"	"	"	"	"	"
Selenium	0.520	0.291	"	"	"	"	"	"
Silver	0.0846	0.0224	"	"	"	"	"	"
Zinc	32.9	0.448	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.2	0.0560	mg/L dry	1	BFL0766	12/31/22	01/03/23	EPA 6020B	
Magnesium	8.39	0.0560	"	"	"	"	"	"	
Sodium	21.6	0.0560	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268
Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-B01@1'
2212550-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.3	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N01@1'
2212550-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0302	75.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0716	12/29/22	12/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.24	49.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N01@1'
2212550-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0229	68.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.237	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N01@1'
2212550-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.89	0.225	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	59.5	0.450	"	"	"	"	"	"	
Cadmium	0.109	0.225	"	"	"	"	"	"	
Copper	8.34	0.450	"	"	"	"	"	"	
Lead	6.03	0.225	"	"	"	"	"	"	
Nickel	8.13	0.450	"	"	"	"	"	"	
Selenium	0.463	0.292	"	"	"	"	"	"	
Silver	0.0399	0.0225	"	"	"	"	"	"	
Zinc	138	0.450	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.3	0.0562	mg/L dry	1	BFL0766	12/31/22	01/03/23	EPA 6020B	
Magnesium	11.3	0.0562	"	"	"	"	"	"	
Sodium	68.0	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.62	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:04

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N01@1'
2212550-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.9	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.594	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N02@1'
2212550-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0281	70.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0716	12/29/22	12/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.26	42.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N02@1'
2212550-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.163	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N02@1'
2212550-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.89	0.220	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	62.1	0.440	"	"	"	"	"	"	
Cadmium	0.107	0.220	"	"	"	"	"	"	
Copper	8.39	0.440	"	"	"	"	"	"	
Lead	6.16	0.220	"	"	"	"	"	"	
Nickel	7.67	0.440	"	"	"	"	"	"	
Selenium	0.518	0.286	"	"	"	"	"	"	
Silver	0.0395	0.0220	"	"	"	"	"	"	
Zinc	61.2	0.440	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.4	0.0550	mg/L dry	1	BFL0766	12/31/22	01/03/23	EPA 6020B	
Magnesium	9.66	0.0550	"	"	"	"	"	"	
Sodium	29.9	0.0550	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:08

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-N02@1'
2212550-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.9	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.375	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-S01@1'
2212550-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0243	60.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0716	12/29/22	12/30/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.59	52.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-S01@1'
2212550-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0244	73.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.152	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-S01@1'
2212550-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.07	0.218	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B
Barium	51.4	0.435	"	"	"	"	"	"
Cadmium	0.0968	0.218	"	"	"	"	"	"
Copper	7.49	0.435	"	"	"	"	"	"
Lead	5.37	0.218	"	"	"	"	"	"
Nickel	7.24	0.435	"	"	"	"	"	"
Selenium	0.530	0.283	"	"	"	"	"	"
Silver	0.0388	0.0218	"	"	"	"	"	"
Zinc	25.2	0.435	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.7	0.0544	mg/L dry	1	BFL0766	12/31/22	01/03/23	EPA 6020B	
Magnesium	6.23	0.0544	"	"	"	"	"	"	
Sodium	19.4	0.0544	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.11	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:12

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-S01@1'
2212550-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.9	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.200	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-E01@1'
2212550-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0315	78.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0716	12/29/22	12/31/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.69	45.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-E01@1'
2212550-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0259	77.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.108	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-E01@1'
2212550-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.75	0.223	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	73.7	0.446	"	"	"	"	"	"	
Cadmium	0.0813	0.223	"	"	"	"	"	"	
Copper	8.27	0.446	"	"	"	"	"	"	
Lead	5.10	0.223	"	"	"	"	"	"	
Nickel	7.73	0.446	"	"	"	"	"	"	
Selenium	0.427	0.290	"	"	"	"	"	"	
Silver	0.0336	0.0223	"	"	"	"	"	"	
Zinc	25.7	0.446	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.3	0.0557	mg/L dry	1	BFL0766	12/31/22	01/03/23	EPA 6020B	
Magnesium	10.5	0.0557	"	"	"	"	"	"	
Sodium	21.9	0.0557	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.11	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-E01@1'
2212550-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.7	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-W01@1'
2212550-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0715	12/29/22	12/30/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0716	12/29/22	12/31/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.52	68.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-W01@1'
2212550-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0006	01/03/23	01/03/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0266	79.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-W01@1'
2212550-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.02	0.220	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	65.3	0.439	"	"	"	"	"	"	
Cadmium	0.0937	0.220	"	"	"	"	"	"	
Copper	8.27	0.439	"	"	"	"	"	"	
Lead	5.94	0.220	"	"	"	"	"	"	
Nickel	7.73	0.439	"	"	"	"	"	"	
Selenium	0.534	0.285	"	"	"	"	"	"	
Silver	0.0634	0.0220	"	"	"	"	"	"	
Zinc	27.5	0.439	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/28/22 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: 12/28/22 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	240	0.0549	mg/L dry	1	BFL0766	12/31/22	01/04/23	EPA 6020B	
Magnesium	60.1	0.0549	"	"	"	"	"	"	
Sodium	1.67	0.0549	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/28/22 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0250	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/28/22 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

SEP-W01@1'
2212550-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.1	%	1	BFL0747	12/30/22	12/31/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.101	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG01@10''
2212550-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.313	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.19	0.216	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	55.0	0.431	"	"	"	"	"	"	
Cadmium	0.133	0.216	"	"	"	"	"	"	
Copper	8.93	0.431	"	"	"	"	"	"	
Lead	8.92	0.216	"	"	"	"	"	"	
Nickel	7.77	0.431	"	"	"	"	"	"	
Selenium	0.565	0.280	"	"	"	"	"	"	
Silver	0.0642	0.0216	"	"	"	"	"	"	
Zinc	30.8	0.431	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	196	0.0539	mg/L dry	1	BFL0766	12/31/22	01/04/23	EPA 6020B	
Magnesium	81.5	0.0539	"	"	"	"	"	"	
Sodium	17.4	0.0539	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG01@10"
2212550-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.264	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BFL0747	12/30/22	12/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.09		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG02@10''
2212550-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.171	0.0100	mg/L	1	BFL0772	12/31/22	12/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.31	0.226	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	88.7	0.452	"	"	"	"	"	"	
Cadmium	0.122	0.226	"	"	"	"	"	"	
Copper	8.41	0.452	"	"	"	"	"	"	
Lead	7.39	0.226	"	"	"	"	"	"	
Nickel	8.08	0.452	"	"	"	"	"	"	
Selenium	0.552	0.293	"	"	"	"	"	"	
Silver	0.0599	0.0226	"	"	"	"	"	"	
Zinc	30.6	0.452	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	201	0.0564	mg/L dry	1	BFL0766	12/31/22	01/04/23	EPA 6020B	
Magnesium	42.9	0.0564	"	"	"	"	"	"	
Sodium	13.6	0.0564	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG02@10''
2212550-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.227	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BFL0747	12/30/22	12/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.13		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG03@10''
2212550-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.335	0.0100		mg/L	1	BFL0772	12/31/22	01/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.73	0.216		mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	96.5	0.431		"	"	"	"	"	"	
Cadmium	0.146	0.216		"	"	"	"	"	"	
Copper	10.2	0.431		"	"	"	"	"	"	
Lead	8.52	0.216		"	"	"	"	"	"	
Nickel	10.0	0.431		"	"	"	"	"	"	
Selenium	0.617	0.280		"	"	"	"	"	"	
Silver	0.0767	0.0216		"	"	"	"	"	"	
Zinc	37.7	0.431		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	30.1	0.0539		mg/L dry	1	BFL0766	12/31/22	01/04/23	EPA 6020B	
Magnesium	12.9	0.0539		"	"	"	"	"	"	
Sodium	14.5	0.0539		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG03@10''
2212550-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.557	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BFL0747	12/30/22	12/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.329	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.07		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

BG04@10''
2212550-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.597	0.0100	mg/L	1	BFL0772	12/31/22	01/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.47	0.213	mg/kg dry	1	BFL0742	12/30/22	12/31/22	EPA 6020B	
Barium	66.3	0.426	"	"	"	"	"	"	
Cadmium	0.150	0.213	"	"	"	"	"	"	
Copper	10.9	0.426	"	"	"	"	"	"	
Lead	8.90	0.213	"	"	"	"	"	"	
Nickel	9.04	0.426	"	"	"	"	"	"	
Selenium	0.682	0.277	"	"	"	"	"	"	
Silver	0.203	0.0213	"	"	"	"	"	"	
Zinc	38.3	0.426	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0757	12/30/22	12/30/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	149	0.0532	mg/L dry	1	BFL0766	12/31/22	01/04/23	EPA 6020B	
Magnesium	64.0	0.0532	"	"	"	"	"	"	
Sodium	6.54	0.0532	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

**BG04@10''
2212550-10 (Soil)**

Summit Scientific

Calculated Analysis

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.113	0.00100	units	1	BGA0054	01/04/23	01/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BFL0747	12/30/22	12/31/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.307	0.0100	mmhos/cm	1	BGA0002	01/01/23	01/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **12/28/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.85		pH Units	1	BGA0003	01/01/23	01/01/23	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BFL0715 - EPA 5030 Soil MS

Blank (BFL0715-BLK1)

Prepared & Analyzed: 12/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0373</i>		<i>"</i>	<i>0.0400</i>		<i>93.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

LCS (BFL0715-BS1)

Prepared & Analyzed: 12/29/22

Benzene	0.0779	0.0020	mg/kg	0.100		77.9	70-130			
Toluene	0.0774	0.0050	"	0.100		77.4	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.0947	0.0050	"	0.100		94.7	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
Naphthalene	0.0806	0.0038	"	0.100		80.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0331</i>		<i>"</i>	<i>0.0400</i>		<i>82.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0381</i>		<i>"</i>	<i>0.0400</i>		<i>95.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			

Matrix Spike (BFL0715-MS1)

Source: 2212526-01

Prepared & Analyzed: 12/29/22

Benzene	0.0733	0.0020	mg/kg	0.100	ND	73.3	70-130			
Toluene	0.0715	0.0050	"	0.100	ND	71.5	70-130			
Ethylbenzene	0.0967	0.0050	"	0.100	ND	96.7	70-130			
m,p-Xylene	0.189	0.010	"	0.200	ND	94.4	70-130			
o-Xylene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
1,2,4-Trimethylbenzene	0.0971	0.0050	"	0.100	ND	97.1	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
Naphthalene	0.0710	0.0038	"	0.100	ND	71.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0324</i>		<i>"</i>	<i>0.0400</i>		<i>81.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>92.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>50-150</i>			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0715 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0715-MSD1)	Source: 2212526-01			Prepared & Analyzed: 12/29/22						
Benzene	0.0718	0.0020	mg/kg	0.100	ND	71.8	70-130	1.98	30	
Toluene	0.0709	0.0050	"	0.100	ND	70.9	70-130	0.801	30	
Ethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130	2.29	30	
m,p-Xylene	0.185	0.010	"	0.200	ND	92.5	70-130	2.05	30	
o-Xylene	0.0879	0.0050	"	0.100	ND	87.9	70-130	2.76	30	
1,2,4-Trimethylbenzene	0.0951	0.0050	"	0.100	ND	95.1	70-130	2.06	30	
1,3,5-Trimethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130	1.92	30	
Naphthalene	0.0780	0.0038	"	0.100	ND	78.0	70-130	9.38	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0254</i>		<i>"</i>	<i>0.0400</i>		<i>63.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0381</i>		<i>"</i>	<i>0.0400</i>		<i>95.3</i>	<i>50-150</i>			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0716 - EPA 3550A

Blank (BFL0716-BLK1)

Prepared: 12/29/22 Analyzed: 12/30/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113		30-150			

LCS (BFL0716-BS1)

Prepared: 12/29/22 Analyzed: 12/30/22

C10-C28 (DRO)	469	50	mg/kg	500		93.8		70-130			
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		103		30-150			

Matrix Spike (BFL0716-MS1)

Source: 2212526-01

Prepared: 12/29/22 Analyzed: 12/30/22

C10-C28 (DRO)	490	50	mg/kg	500	ND	97.9		70-130			
Surrogate: <i>o</i> -Terphenyl	9.92		"	12.5		79.3		30-150			

Matrix Spike Dup (BFL0716-MSD1)

Source: 2212526-01

Prepared: 12/29/22 Analyzed: 12/30/22

C10-C28 (DRO)	496	50	mg/kg	500	ND	99.2		70-130	1.33	20	
Surrogate: <i>o</i> -Terphenyl	5.37		"	12.5		43.0		30-150			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGA0006 - EPA 5030 Soil MS

Blank (BGA0006-BLK1)

Prepared & Analyzed: 01/03/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0265		"	0.0333		79.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0328		"	0.0333		98.3	40-150			

LCS (BGA0006-BS1)

Prepared & Analyzed: 01/03/23

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.0	31-137			
Anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (a) anthracene	0.0297	0.00500	"	0.0333		89.2	30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (b) fluoranthene	0.0296	0.00500	"	0.0333		88.8	30-120			
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.7	30-120			
Dibenz (a,h) anthracene	0.0274	0.00500	"	0.0333		82.2	30-120			
Fluoranthene	0.0254	0.00500	"	0.0333		76.2	30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333		92.0	30-120			
Pyrene	0.0209	0.00500	"	0.0333		62.8	35-142			
1-Methylnaphthalene	0.0292	0.00500	"	0.0333		87.6	35-142			
2-Methylnaphthalene	0.0273	0.00500	"	0.0333		82.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0292		"	0.0333		87.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0311		"	0.0333		93.2	40-150			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGA0006 - EPA 5030 Soil MS

Matrix Spike (BGA0006-MS1)	Source: 2212550-01			Prepared & Analyzed: 01/03/23						
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.5	31-137			
Anthracene	0.0211	0.00500	"	0.0333	ND	63.2	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120			
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.4	30-120			
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120			
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120			
Chrysene	0.0225	0.00500	"	0.0333	ND	67.5	30-120			
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120			
Fluorene	0.0214	0.00500	"	0.0333	ND	64.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333	ND	65.6	30-120			
Pyrene	0.0145	0.00500	"	0.0333	ND	43.4	35-142			
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130			
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0230</i>		<i>"</i>	<i>0.0333</i>		<i>69.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0221</i>		<i>"</i>	<i>0.0333</i>		<i>66.2</i>	<i>40-150</i>			

Matrix Spike Dup (BGA0006-MSD1)	Source: 2212550-01			Prepared & Analyzed: 01/03/23						
Acenaphthene	0.0279	0.00500	mg/kg	0.0333	ND	83.7	31-137	25.9	30	
Anthracene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	26.0	30	
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120	26.2	30	
Benzo (a) pyrene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	25.7	30	
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.7	30-120	24.8	30	
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120	24.5	30	
Chrysene	0.0288	0.00500	"	0.0333	ND	86.3	30-120	24.4	30	
Dibenz (a,h) anthracene	0.0265	0.00500	"	0.0333	ND	79.6	30-120	26.0	30	
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	29.1	30	
Fluorene	0.0274	0.00500	"	0.0333	ND	82.3	30-120	24.5	30	
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	84.9	30-120	25.6	30	
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	12.8	30	
1-Methylnaphthalene	0.0302	0.00500	"	0.0333	ND	90.6	15-130	22.4	50	
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	ND	101	15-130	35.1	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0286</i>		<i>"</i>	<i>0.0333</i>		<i>85.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0333</i>		<i>83.8</i>	<i>40-150</i>			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0772 - EPA 3050B

Blank (BFL0772-BLK1)

Prepared & Analyzed: 12/31/22

Boron ND 0.0100 mg/L

LCS (BFL0772-BS1)

Prepared & Analyzed: 12/31/22

Boron 5.45 0.0100 mg/L 5.00 109 80-120

Duplicate (BFL0772-DUP1)

Source: 2212355-01

Prepared & Analyzed: 12/31/22

Boron 0.176 0.0100 mg/L 0.189 6.71 20

Matrix Spike (BFL0772-MS1)

Source: 2212355-01

Prepared & Analyzed: 12/31/22

Boron 5.57 0.0100 mg/L 5.00 0.189 108 75-125

Matrix Spike Dup (BFL0772-MSD1)

Source: 2212355-01

Prepared & Analyzed: 12/31/22

Boron 5.85 0.0100 mg/L 5.00 0.189 113 75-125 4.82 25

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BFL0742 - EPA 3050B

Blank (BFL0742-BLK1)

Prepared: 12/30/22 Analyzed: 12/31/22

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	0.0429	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Selenium	ND	0.260	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						

LCS (BFL0742-BS1)

Prepared: 12/30/22 Analyzed: 12/31/22

Arsenic	42.8	0.200	mg/kg wet	40.0	107	80-120
Barium	42.4	0.400	"	40.0	106	80-120
Cadmium	2.16	0.200	"	2.00	108	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	20.8	0.200	"	20.0	104	80-120
Nickel	40.1	0.400	"	40.0	100	80-120
Selenium	4.11	0.260	"	4.00	103	80-120
Silver	2.10	0.0200	"	2.00	105	80-120
Zinc	43.5	0.400	"	40.0	109	80-120

Duplicate (BFL0742-DUP1)

Source: 2212521-01

Prepared: 12/30/22 Analyzed: 12/31/22

Arsenic	2.56	0.226	mg/kg dry	2.42	5.60	20
Barium	75.9	0.452	"	79.7	4.84	20
Cadmium	0.204	0.226	"	0.199	2.70	20
Copper	10.3	0.452	"	10.1	1.64	20
Lead	7.15	0.226	"	7.33	2.47	20
Nickel	7.47	0.452	"	7.38	1.15	20
Selenium	0.542	0.294	"	0.545	0.530	20
Silver	0.0609	0.0226	"	0.0695	13.3	20
Zinc	35.8	0.452	"	35.1	1.77	20

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650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BFL0742 - EPA 3050B

Matrix Spike (BFL0742-MS1)

Source: 2212521-01

Prepared: 12/30/22 Analyzed: 12/31/22

Arsenic	47.8	0.226	mg/kg dry	45.2	2.42	100	75-125			
Barium	134	0.452	"	45.2	79.7	119	75-125			
Cadmium	2.44	0.226	"	2.26	0.199	99.1	75-125			
Copper	52.6	0.452	"	45.2	10.1	94.1	75-125			
Lead	28.3	0.226	"	22.6	7.33	92.8	75-125			
Nickel	50.1	0.452	"	45.2	7.38	94.5	75-125			
Selenium	4.44	0.294	"	4.52	0.545	86.2	75-125			
Silver	2.22	0.0226	"	2.26	0.0695	95.1	75-125			
Zinc	85.0	0.452	"	45.2	35.1	110	75-125			

Matrix Spike Dup (BFL0742-MSD1)

Source: 2212521-01

Prepared: 12/30/22 Analyzed: 12/31/22

Arsenic	52.4	0.226	mg/kg dry	45.2	2.42	111	75-125	9.23	25
Barium	120	0.452	"	45.2	79.7	90.0	75-125	10.5	25
Cadmium	2.68	0.226	"	2.26	0.199	110	75-125	9.55	25
Copper	57.6	0.452	"	45.2	10.1	105	75-125	9.04	25
Lead	30.5	0.226	"	22.6	7.33	103	75-125	7.65	25
Nickel	54.6	0.452	"	45.2	7.38	105	75-125	8.71	25
Selenium	4.87	0.294	"	4.52	0.545	95.6	75-125	9.15	25
Silver	2.47	0.0226	"	2.26	0.0695	106	75-125	10.6	25
Zinc	89.1	0.452	"	45.2	35.1	119	75-125	4.70	25

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0757 - 3060A Mod

Blank (BFL0757-BLK1)

Prepared & Analyzed: 12/30/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFL0757-BS1)

Prepared & Analyzed: 12/30/22

Chromium, Hexavalent 22.4 0.30 mg/kg wet 25.0 89.6 80-120

Duplicate (BFL0757-DUP1)

Source: 2212549-01

Prepared & Analyzed: 12/30/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFL0757-MS1)

Source: 2212549-01

Prepared & Analyzed: 12/30/22

Chromium, Hexavalent 25.6 0.30 mg/kg dry 29.1 ND 88.0 75-125

Matrix Spike Dup (BFL0757-MSD1)

Source: 2212549-01

Prepared & Analyzed: 12/30/22

Chromium, Hexavalent 25.7 0.30 mg/kg dry 29.1 ND 88.4 75-125 0.454 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFL0766 - General Preparation

Blank (BFL0766-BLK1)

Prepared: 12/31/22 Analyzed: 01/03/23

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BFL0766-BS1)

Prepared: 12/31/22 Analyzed: 01/03/23

Calcium	4.15	0.0500	mg/L wet	5.00	83.0	70-130
Magnesium	4.22	0.0500	"	5.00	84.4	70-130
Sodium	4.05	0.0500	"	5.00	80.9	70-130

Summit Scientific

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Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
 Project Manager: Sam Vogt

Reported:
 01/05/23 11:33

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BFL0747 - General Preparation

Duplicate (BFL0747-DUP1)	Source: 2212549-01		Prepared: 12/30/22 Analyzed: 12/31/22		
% Solids	85.8	%	85.9	0.0318	20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGA0002 - General Preparation

Blank (BGA0002-BLK1)

Prepared & Analyzed: 01/01/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0002-BS1)

Prepared & Analyzed: 01/01/23

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.6 95-105

Duplicate (BGA0002-DUP1)

Source: 2212522-01

Prepared & Analyzed: 01/01/23

Specific Conductance (EC) 0.238 0.0100 mmhos/cm 0.232 2.73 20

Summit Scientific

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Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Jillson-East Rinn 22H-M268

Project Number: COC75685
 Project Manager: Sam Vogt

Reported:
 01/05/23 11:33

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGA0003 - General Preparation

LCS (BGA0003-BS1)

Prepared & Analyzed: 01/01/23

pH	9.12		pH Units	9.18	99.3	95-105
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Duplicate (BGA0003-DUP1)

Source: 2212522-01

Prepared & Analyzed: 01/01/23

pH	8.15		pH Units	8.29	1.70	20
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Jilison-East Rinn 22H-M268

Project Number: COC75685
Project Manager: Sam Vogt

Reported:
01/05/23 11:33

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference