



## Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

August 05, 2024

143 Diamond Ave  
Parachute, CO 81635  
970-285-2600

**Project Manager :** Andrew Verbonitz  
**Project Name :** P27 595 1D Flowline 2024 Release  
**Project Number :** P27595

Attached are the analytical results for P27 595 1D Flowline 2024 Release P27595 received by Elevation Diagnostics, Division of Environmental Testing on July 30, 2024. This is associated with Elevation's number AA10685 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel  
Laboratory Director  
CSO,CCO

# Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80045  
800.440.5184

City/State/ZIP: Parachute, CO 81635

Project Contact: Andrew Verbonitz

Project Location:

Collector Name:

Lab

Use

Only

Observed Temperature Upon Receipt: 11.0°C

Corrected Temperature Upon Receipt: 12.3°C

Thermometer #: E0X EQ 248

Correction Factor: +1.3°C

Samples Intact: Yes No

pH Checked: Yes Yes

pH Adjusted: Yes Yes

PFAS rec'd on ice: Yes No NA

Lot/EQM Number: 2924-07-030-001

Name/Lot Number of Adjustment: NA

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**Report Date :** 8/5/2024**Report Time :** 14:23**FINAL RESULTS REPORT****Project Manager:** Andrew Verbonitz**Project Name:** P27 595 1D Flowline 2024 Rel**Project Number:** P27595

Sample ID	Customer ID	Collected		Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start						Recovery
AA10685-2	20240726-NPRBG-(P27595-NE)@0.5	Collected : 07/26/2024		11:10				
Chromium VI, Soil		08/01/2024	08:56		<0.0800	mg/kg	0.080	EPA 7199
Total Metals, Soils - Arsenic		08/05/2024	10:01	10.00	14.557	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		08/05/2024	10:01	10.00	314.362	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		08/05/2024	10:01	10.00	0.588	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		08/05/2024	10:01	10.00	29.297	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		08/05/2024	10:01	10.00	18.303	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		08/05/2024	10:01	10.00	23.571	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		08/05/2024	10:01	10.00	3.106	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		08/05/2024	10:01	10.00	<0.250 - RL1	mg/kg	0.250	EPA 6020B
Total Metals, Soils - Zinc		08/05/2024	10:01	10.00	83.288	mg/kg	0.025	EPA 6020B
AA10686-2	20240726-NPRBG-(P27595-N)@0.5	Collected : 07/26/2024		11:15				
Chromium VI, Soil		08/01/2024	08:56		<0.0800	mg/kg	0.080	EPA 7199
Total Metals, Soils - Arsenic		08/02/2024	09:42	10.00	28.980	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		08/02/2024	09:42	10.00	386.078	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		08/02/2024	09:42	10.00	0.517	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		08/02/2024	09:42	10.00	34.072	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		08/02/2024	09:42	10.00	22.456	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		08/02/2024	09:42	10.00	24.263	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		08/02/2024	09:42	10.00	3.985	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		08/02/2024	09:42	10.00	<0.250 - RL1	mg/kg	0.250	EPA 6020B
Total Metals, Soils - Zinc		08/02/2024	09:42	10.00	82.602	mg/kg	0.025	EPA 6020B
AA10687-2	20240726-NPRBG-(P27595-S)@0.5	Collected : 07/26/2024		11:20				
Chromium VI, Soil		08/01/2024	08:56		<0.0800	mg/kg	0.080	EPA 7199
Total Metals, Soils - Arsenic		08/02/2024	09:42	10.00	23.576	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Barium		08/02/2024	09:42	10.00	3.050	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Cadmium		08/02/2024	09:42	10.00	0.430	mg/kg	0.001	EPA 6020B
Total Metals, Soils - Copper		08/02/2024	09:42	10.00	27.713	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Lead		08/02/2024	09:42	10.00	18.407	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Nickel		08/02/2024	09:42	10.00	20.239	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Selenium		08/02/2024	09:42	10.00	3.097	mg/kg	0.025	EPA 6020B
Total Metals, Soils - Silver		08/02/2024	09:42	10.00	<0.250 - RL1	mg/kg	0.250	EPA 6020B
Total Metals, Soils - Zinc		08/02/2024	09:42	10.00	70.177	mg/kg	0.025	EPA 6020B

**QC Report**

CHROM_VI_SOIL-4170		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP	AA10501	<0.0800	0.080	mg/kg	<0.0800				
MB	AA10704	0.0199		mg/kg					
LCS	AA10706	0.0387		mg/kg	0.0400	96.8			
LCS	AA10707	0.0389		mg/kg	0.0400	97.2			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
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**METALS\_S-4184****AA10685****DUP**

Arsenic	16.065	0.025	mg/kg		14.557			9.85	0 - 15
Barium	351.687	0.025	mg/kg		314.362			11.2	0 - 15
Cadmium	0.646	0.001	mg/kg		0.588			9.40	0 - 15
Copper	25.600	0.025	mg/kg		29.297			13.5	0 - 15
Lead	18.805	0.025	mg/kg		18.303			2.71	0 - 15
Nickel	22.434	0.025	mg/kg		23.571			4.94	0 - 15
Selenium	3.129	0.025	mg/kg		3.106			0.738	0 - 15
Silver	<0.250	0.250	mg/kg		<0.250				
Zinc	80.727	0.025	mg/kg		83.288			3.12	0 - 15

**Matrix Spike**

Arsenic	31.709		mg/kg	20	14.557	85.8
Barium	335.713		mg/kg	20	314.362	107
Cadmium	20.534		mg/kg	20	0.588	99.7
Copper	50.887		mg/kg	20	29.297	108
Lead	36.099		mg/kg	20	18.303	89.0
Nickel	42.375		mg/kg	20	23.571	94.0
Selenium	21.597		mg/kg	20	3.106	92.5
Silver	17.445		mg/kg	20	<0.250	87.2
Zinc	102.713		mg/kg	20	83.288	97.1

**AA10729****MB**

Arsenic	0.000	mg/kg
Barium	0.000	mg/kg
Cadmium	0.000	mg/kg
Copper	0.003	mg/kg
Lead	0.000	mg/kg
Nickel	0.000	mg/kg
Selenium	0.000	mg/kg
Silver	0.000	mg/kg
Zinc	0.008	mg/kg

**AA10731****LCS**

Arsenic	0.088	mg/kg	97.8	80 - 120
Barium	0.090	mg/kg	100	80 - 120
Cadmium	0.091	mg/kg	101	80 - 120
Copper	0.095	mg/kg	106	80 - 120
Lead	0.092	mg/kg	102	80 - 120
Nickel	0.095	mg/kg	106	80 - 120
Selenium	0.091	mg/kg	101	80 - 120
Silver	0.098	mg/kg	109	80 - 120
Zinc	0.096	mg/kg	107	80 - 120

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
<b>AA10732</b>									
Arsenic	0.091		mg/kg			101	80 - 120		
Barium	0.090		mg/kg			100	80 - 120		
Cadmium	0.091		mg/kg			101	80 - 120		
Copper	0.098		mg/kg			109	80 - 120		
Lead	0.091		mg/kg			101	80 - 120		
Nickel	0.098		mg/kg			109	80 - 120		
Selenium	0.091		mg/kg			101	80 - 120		
Silver	0.099		mg/kg			110	80 - 120		
Zinc	0.098		mg/kg			109	80 - 120		

QualifierExplanation

H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample incorrectly preserved
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
E	Electronic loss or corruption of data.
I	Subcontracted sample