



**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

# Chain of Custody Form

# Elevation Diagnostics

Client: Calerus Oil and Gas  
 Address: 143 Diamond Ave  
 City/State/ZIP: Parachute, CO 81635  
 Phone: (970)-285-2925  
 Project Contact: Andrew Verbonitz

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

Project Name/Number: P27 595 ID Fixture 0624  
 Project Location: P27 595  
 Collector Name: Olivia Floyd

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative					Matrix	Analysis Requested	Interim report requested		
					HCl	HNO <sub>3</sub>	None	Other	Water			Soil	Other	Yes
1	20240726-NPRBG-(P27 595-ID)0.5	7/26/24	110	1		X				Water			<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	20240726-NPRBG-(P27 595-ID)0.5	7/26/24	115	1		X				Other	Table 915-2 Metals		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	20240726-NPRBG-(P27 595-ID)0.5	7/26/24	120	1		X				Other			<input type="checkbox"/>	<input checked="" type="checkbox"/>
4														
5														
6														
7														
8														
9														
10														

Initials: AA10686  
 CNU/ID: 20240726-NPRBG-(P27595-ID)0.5  
 Container: AA10686

Date/Time: 7/26/24 11:00 AM

Initials: AA10687  
 CNU/ID: 20240726-NPRBG-(P27595-S)0.5  
 Container: AA10687

Date/Time: 7/26/24 11:00 AM

Initials: AA10685  
 CNU/ID: 20240726-NPRBG-(P27595-NE)0.5  
 Container: AA10685

Date/Time: 7/26/24 11:00 AM

Relinquished By: Chavin Ortega Relinquished By: AF  
 Date/Time: 7/26/2024 12:30 Date/Time: 7-26-24 12:30

Lab Observed Temperature Upon Receipt: 11.0 C Samples Intact:  No 2924-07-030-001  
 Use Corrected Temperature Upon Receipt: 12.3 C pH Checked:  Yes Lot/EQM Number: NA  
 Only Thermometer #: E0X EQ 248 pH Adjusted:  Yes  
 Correction Factor: +1.3 C PFAS rec'd on ice:  Yes No NA  
 Name/Lot Number of Adjustment: NA



scan to Deliver Samples

EFOR-008.005



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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
<b>AA10685-2</b>	20240726-NPRBG-(P27595-NE)@0.5	<b>Collected :</b> 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
<b>AA10686-2</b>	20240726-NPRBG-(P27595-N)@0.5	<b>Collected :</b> 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
<b>AA10687-2</b>	20240726-NPRBG-(P27595-S)@0.5	<b>Collected :</b> 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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**QC Report**

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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**Project Name:** P27 595 1D Flowline 2024 Rel

**Project Number:** P27595

**QC Report**

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		

Qualifier

Explanation

- 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