



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

June 21, 2023

1301 Academy St.
Fort Collins, CO 80525
800-288-2657
lglazier@cgrs.com

Project Manager : Lauren Glazier

Project Name : 909j

Project Number : N/A

Attached are the analytical results for 909j N/A received by Elevation Diagnostics, Division of Environmental Testing on May 11, 2023. This is associated with Elevation's number AA01069 .

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 Gracom
Laboratory Director
CSO,CCO































Chain of Custody Form


Elevation Diagnostics

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

Client: CGRS
Address: 1301 Academy Ct
City/State/ZIP: Fort Collins, CO 80525
Phone: 315-657-4720
Project Contact: Lauren Glazier

Project Name: 909j
Project Location: _____
Collector Name: M. RUSCH

					Preservative				Matrix		Analysis Requested							Notes		
Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO ₃	None	Other	Water	Soil	Other	pH, Conductivity	TDS, TSS, Alkalinity	Br, Cl, F, SO ₄ , P, NO ₃ , NO ₂	Sum of NO ₃ & NO ₂	Ca, Fe, Mg, Mn, K, Na, Ba, B, Se, Sr	BTEX - N	TPH (GRO, ORO, DRO)	Ra 226, Ra 228	N-BTEX Includes: o-xylene, m+p-xylene, total xylenes, and Naphthalene 909j table 3-1
1	Lippertman	5/10/23	12:15pm	13					X											FACILITY ID: 771069
2	DAVIS WT (IE)		1:15pm	13					X											771019
3	WARD KINCHLOE (IE)		11:15am	13					X											233596
4	FRIEND STATE (IE)		9:15am	13					X											267327
5	SPOTTED DOG		10:15am	13					X											771078
6	Cowles	↓	2:15pm	13					X											771079
7	Hickert	↓	3:00pm	13					X											236693
8																				
9																				
10																				

Relinquished By: <u>Matt Rusch</u>	Relinquished By: _____	Relinquished By: _____	Scan to Deliver Samples 
Date/Time: <u>5/10/23 6:30pm</u>	Date/Time: _____	Date/Time: _____	
Lab Use Only	Observed Temperature Upon Receipt: <u>3.8°C</u>	Samples Intact: <u>Yes</u> No	2023-05-11-002
	Corrected Temperature Upon Receipt: <u>5.8°C</u>	pH Checked: <u>Yes</u> No	
	Thermometer #: <u>EDYEQ 238</u>	pH Adjusted: <u>Yes</u> No	
	Correction Factor: <u>+2°C</u>	Name/Lot Number of Adjustment: _____	

EFOR-008.002

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FINAL RESULTS REPORT**Report Date :** 6/21/2023**Report Time :** 11:09**REPORT TO**

1301 Academy St.
Fort Collins, CO 80525
800-288-2657
lglaazier@cgrs.com

Project Manager : Lauren Glazier**Project Name :** 909j**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA01069-1 Spotted Dog Collected : 05/10/2023 10:15							
		Total Alkalinity 05/12/2023 11:46		859.1 - H1	g CaCO ₃		SM 2320B
		Bicarbonate Alkalinity 05/12/2023 11:49		859.1 - H1	g CaCO ₃		SM 2320B
		Carbonate Alkalinity 05/12/2023 11:50		0 - H1	g CaCO ₃		SM 2320B
		Conductivity 05/11/2023 15:35		2620	μS/cm	20	EPA 9050A
		Fluoride 05/12/2023 14:22	4.00	4.262	mg/L	0.20	HACH 10225
		pH, Water 05/11/2023 14:41		8.16 - H1	S.U.	0.01	EPA9040C, EPA150.1
		pH, Water Temperature 05/11/2023 14:41		19.7	°C		
		Total Dissolved Solids 05/15/2023 15:23		1355.00	mg/L	10.00	SM2540C, EPA160.1
		Total Suspended Solids 05/17/2023 12:17		4.0	mg/L	0.5	SM2540D, EPA160.2
AA01069-2 Spotted Dog Collected : 05/10/2023 10:15							
		Bromide 05/19/2023 14:01	50.00	Not Detected - I	mg/L	10.0	EPA 300.0
		Chloride 05/19/2023 14:01	50.00	198 - I	mg/L	3.00	EPA 300.0
		Nitrate & Nitrite as Nitrogen, Summation 05/19/2023 14:01	50.00	Not Detected - I	mg/L	3.00	EPA 300.0

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lglaazier@cgrs.com

Project Manager : Lauren Glazier**Project Name :** 909j**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA01069-3	Spotted Dog Collected : 05/10/2023 10:15	Nitrate as Nitrogen					
		05/19/2023 14:01	50.00	Not Detected - I	mg/L	2.50	EPA 300.0
		Nitrite as Nitrogen					
		05/19/2023 14:01	50.00	Not Detected - I	mg/L	3.00	EPA 300.0
		Sulfate					
		05/19/2023 14:01	50.00	16.4 - I	mg/L	15.0	EPA 300.0
		Total Metals, Aqueous - Phosphorous					
		05/18/2023 09:30	10.00	79.078	µg/L	10.000	EPA3010A&3005A
		Total Metals, Aqueous - Boron					
		05/18/2023 09:30	10.00	965.755	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Sodium					
		05/18/2023 09:30	10,000.00	524571.806	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Potassium					
		05/18/2023 09:30	10.00	3034.682	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Calcium					
		05/18/2023 09:30	10.00	435.621	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Manganese					
		05/18/2023 09:30	10.00	11.525	µg/L	0.050	EPA3010A&3005A
		Total Metals, Aqueous - Iron					
		05/18/2023 09:30	10.00	41.462	µg/L	20.000	EPA3010A&3005A
		Total Metals, Aqueous - Selenium					
		05/18/2023 09:30	10.00	<1.000	µg/L	1.000	EPA3010A&3005A
		Total Metals, Aqueous - Strontium					
		05/18/2023 09:30	10.00	89.884	µg/L	0.025	EPA3010A&3005A
		Total Metals, Aqueous - Barium					
		05/18/2023 09:30	10.00	118.824	µg/L	0.025	EPA3010A&3005A

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Sample ID	Customer ID	Analyte Name	Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA01069-4	Spotted Dog Collected : 05/10/2023 10:15	Total Metals, Aqueous - Magnesium						
		05/18/2023	09:30	10.00	538.449	µg/L	25.000	EPA3010A&3005A
		BTEX - Toluene						
		05/19/2023	14:01		2.6	µg/L	1.0	EPA 8260B
		BTEX - Naphthalene						
		05/19/2023	14:01		2.9	µg/L	1.0	EPA 8260B
		BTEX - Xylenes						
		05/19/2023	14:01		4.2	µg/L	2.0	EPA 8260B
		BTEX - o-Xylene						
		05/19/2023	14:01		1.4	µg/L	1.0	EPA 8260B
		BTEX - Ethylbenzene						
		05/19/2023	14:01		3.3	µg/L	1.0	EPA 8260B
		BTEX - Benzene						
		05/19/2023	14:01		Not Detected	µg/L	1.0	EPA 8260B
BTEX - m&p-Xylene								
05/19/2023	14:01		2.8	µg/L	2.0	EPA 8260B		
AA01069-5	Spotted Dog Collected : 05/10/2023 10:15	Diesel Range Organic						
		05/19/2023	14:01		Not Detected - I	mg/L	5.0	EPA 8015M
		Gasoline Range Organic						
		05/19/2023	14:01		Not Detected - I	µg/L	500	EPA 8260B
		Oil Range Organic						
		05/19/2023	14:01		Not Detected - I	mg/L	5.0	EPA 8015M
		RA 226						
05/25/2023	12:29		0.830 - I	pCi/L	1.00	EPA 903.1		

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Project Manager : Lauren Glazier**Project Name :** 909j**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		RA 228 05/25/2023 12:29		2.07 - I	pCi/L	3.00	EPA 904.0

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lgazier@cgrs.com

Project Manager : Lauren Glazier**Project Name :** 909j**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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QC Report**ALKALINITY-454**

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA01065	1874.7		mg CaCO3/L		1858.7			0.21428	
LCS	AA01086	44.2		mg CaCO3/L	40.0		89.500			
LCS	AA01087	1030.7		mg CaCO3/L	1000.0		96.930			

CONDUCTANCE_EPA-449

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA01065	4370	20	µS/cm					0.28441	-5 - 5
DUP	AA01075	12920	20	µS/cm						
LCS	AA01077	10120	20	µS/cm	10000		98.800	80 -		

FLUORIDE-458

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA01065	2.612	0.20	mg/L		2.718			0.99437	-5 - 5
LCS	AA01092	0.372		mg/L	0.40		93.000	80 - 120		
LCS	AA01093	1.912		mg/L	2.0		95.600	80 - 120		

PH_W-448

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA01065	7.76	0.01	S.U.		7.74			0.064516	-5 - 5
LCS	AA01073	6.82	0.01	S.U.	6.86		99.417	95 - 105		
LCS	AA01074	6.86	0.01	S.U.	6.86		100.00	95 - 105		

TDS-453

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA01084	2997.0	0.1	mg/L					0.016678	
LCS	AA01084	2999	10	mg/L	3000.00		99.967	85 - 115		
LCS	AA01085	2997	10	mg/L	3000.00		99.900	85 - 115		

TSS-457

Reporting	Spike	Source	% REC	RPD
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Report #663

Not previously reported

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The results listed pertain only to the samples submitted to Elevation Diagnostics, Division of Environmental Testing as per the Chain of Custody attached. This report may only be duplicated in full.

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Sample ID		Customer ID		Analyte Name Analysis Start		Dilution	Result	Units	Reporting Limit	Method Reference
Analyte		Result	Limit	Units	Level	Result	%Rec	Limits	RPD	Limit
DUP	AA01089	445.0	0.1	mg/L					1.3129	
LCS	AA01089	469		mg/L	500		93.800	85 - 115		
LCS	AA01090	445		mg/L	500		89.000	85 - 115		

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lglazier@cgrs.com

Project Manager : Lauren Glazier**Project Name :** 909j**Project Number :** N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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QC Report**METALS_W-477**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA01081									
Arsenic									
DUP	418.798	0.100	µg/L		0.584			555231454	0 - 15
Matrix Spike	421.131	0.100	µg/L	400	0.584	05.136750	80 - 120		
Nickel									
DUP	401.881	0.250	µg/L		2.095			176499611	0 - 15
Matrix Spike	394.642	0.250	µg/L	400	2.095	08.136750	80 - 120		
Uranium									
DUP	360.741	0.025	µg/L		0.246			767105016	0 - 15
Matrix Spike	365.011	0.025	µg/L	400	0.246	01.191250	80 - 120		
AA01147									
Arsenic									
LCS	92.210	0.100	µg/L	90		544444444	80 - 120		
Barium									
LCS	93.061	0.025	µg/L	90		598888888	80 - 120		
Boron									
LCS	89.377	25.000	µg/L	90		307777777	80 - 120		
Calcium									
LCS	92.506	25.000	µg/L	90		215555555	80 - 120		
Iron									
LCS	91.264	20.000	µg/L	90		595555555	80 - 120		
Lead									
LCS	93.809	0.100	µg/L	90		767777777	80 - 120		
Magnesium									
LCS	89.786	25.000	µg/L	90		762222222	80 - 120		

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Manganese							
LCS	92.106	0.050	µg/L	90	97.6600	80 - 120	
Nickel							
LCS	92.636	0.250	µg/L	90	.071111111	80 - 120	
Phosphorous							
LCS	92.833	10.000	µg/L	90	852222222	80 - 120	
Potassium							
LCS	92.530	25.000	µg/L	90	188888888	80 - 120	
Selenium							
LCS	99.751	1.000	µg/L	90	165555555	80 - 120	
Sodium							
LCS	87.707	25.000	µg/L	90	452222222	80 - 120	
Strontium							
LCS	94.079	0.025	µg/L	90	467777777	80 - 120	
Uranium							
LCS	85.381	0.025	µg/L	90	867777777	80 - 120	
AA01148							
Arsenic							
LCS	90.085	0.100	µg/L	90	905555555	80 - 120	
Barium							
LCS	94.353	0.025	µg/L	90	163333333	80 - 120	
Boron							
LCS	90.627	25.000	µg/L	90	303333333	80 - 120	
Calcium							
LCS	89.314	25.000	µg/L	90	237777777	80 - 120	
Iron							
LCS	91.084	20.000	µg/L	90	795555555	80 - 120	
Lead							
LCS	93.771	0.100	µg/L	90	95.8100	80 - 120	
Magnesium							

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LCS	88.555	25.000	µg/L	90	394444444	80 - 120	
Manganese							
LCS	92.356	0.050	µg/L	90	382222222	80 - 120	
Nickel							
LCS	91.452	0.250	µg/L	90	386666666	80 - 120	
Phosphorous							
LCS	91.521	10.000	µg/L	90	98.3100	80 - 120	
Potassium							
LCS	91.005	25.000	µg/L	90	883333333	80 - 120	
Selenium							
LCS	101.520	1.000	µg/L	90	87.200	80 - 120	
Sodium							
LCS	106.994	25.000	µg/L	90	117777777	80 - 120	
Strontium							
LCS	94.318	0.025	µg/L	90	202222222	80 - 120	
Uranium							
LCS	88.051	0.025	µg/L	90	834444444	80 - 120	

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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 or 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 RSD 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