

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 19, 2024

Ryan Finley

Entrada Consulting Group

240 Mesa Avenue

Grand Junction., CO 81501

RE: Razor GL 2024 Release-1

Work Order #2407250

Enclosed are the results of analyses for samples received by Summit Scientific on 07/19/24 17:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS21@6.5	2407250-01	Soil	07/18/24 14:30	07/19/24 17:04
SS23@11	2407250-02	Soil	07/18/24 14:40	07/19/24 17:04
SS24@6	2407250-03	Soil	07/18/24 14:50	07/19/24 17:04
SS25@6	2407250-04	Soil	07/18/24 15:00	07/19/24 17:04

Case Narrative

Reported analytes have been corrected to match COC on 8/19/2024.

This is a revision of the report originally sent on 7/25/2024 at 13:13 MT.

Summit Scientific

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Client: Tallgrass/Entrada Consulting		Send Data To:		Send Invoice To:	
Address: ON File		Project Manager: Ryan Finley		Company: Entrada	
City/State/Zip:		E-Mail: Rfinley@entradainc.com		Project Name/Location: Razor GL 2024 Release	
Phone: 303-907-0635		Project Name: Razor GL 2024 Release		AFE#:	
Sampler Name: Ryan Finley		Project Number: 024-131		PO/Billing Codes: 024-131	
				Contact: Stuart Hall	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Fluorene	1-methylnaph	EC, SAR	PH	Arsenic, barium		Cadmium, lead		
1	SS21@0.5 ft	7/18/24	1430	2			X						X	X	X	X	X	X				
2	SS23@11	↓	1440	↓									↓	↓	↓	↓	↓	↓				
3	SS24@6	↓	1450	↓									↓	↓	↓	↓	↓	↓				
4	SS25@6	↓	1500	↓									↓	↓	↓	↓	↓	↓				
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by:	Date/Time: 7/19/24	Received by:	Date/Time: 7/19/24 17:04	TAT Business Days	Field DO	Notes: Rush inorganics Full results by 7/24
				Same Day <input checked="" type="checkbox"/>	Field EC	
1 Day <input type="checkbox"/>	Field ORP					
2 Days <input type="checkbox"/>	Field pH					
3 Days <input type="checkbox"/>	Field Temp.					
Standard <input type="checkbox"/>	Field Turb.					
Temperature Upon Receipt: 5-8	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407250Client: Entrada Client Project ID: Ruzor GL 2024 ReleaseShipped Via H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) 5.8Thermometer # 2

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>same day</u>
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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no relinquish times</u>
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 type="checkbox"/>	<input checked="" 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.AS

Custodian Printed Name

7/19/24

Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS21@6.5
2407250-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %		50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Fluorene	ND	0.00500		mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.43	0.200		mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	

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SS21@6.5
2407250-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	226	0.400	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Cadmium	0.215	0.200	"	"	"	"	"	"	
Lead	10.4	0.200	"	"	"	"	"	"	

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

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	255	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	14.2	0.0500	"	"	"	"	"	"	
Sodium	9.69	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.160	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.240	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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SS21@6.5
2407250-01 (Soil)

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

Date Sampled: **07/18/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.47		pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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240 Mesa Avenue
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Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS23@11
2407250-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.7 %		50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Fluorene	ND	0.00500		mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.84	0.200		mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	46.5	0.400		"	"	"	"	"	"	

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SS23@11
2407250-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Lead	4.12	0.200	"	"	"	"	"	"	"

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

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	392	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	70.9	0.0500	"	"	"	"	"	"	
Sodium	519	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.34	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.5		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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SS23@11
2407250-02 (Soil)

Summit Scientific

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

Date Sampled: **07/18/24 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.61		pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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240 Mesa Avenue
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Reported:
08/19/24 08:48

SS24@6
2407250-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Fluorene	ND	0.00500		mg/kg	1	BHG0564	07/22/24	07/23/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0136	40.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0149	44.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.95	0.200		mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	279	0.400		"	"	"	"	"	"	

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08/19/24 08:48

SS24@6
2407250-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.306	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Lead	11.3	0.200	"	"	"	"	"	"	"

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

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	152	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	16.5	0.0500	"	"	"	"	"	"	
Sodium	67.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.5		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.601	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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SS24@6
2407250-03 (Soil)

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

Date Sampled: **07/18/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.66		pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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Project: Razor GL 2024 Release-1

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Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0553	07/19/24	07/20/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0377	94.3 %		50-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Fluorene	ND	0.00500		mg/kg	1	BHG0564	07/22/24	07/24/24	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.85	0.200		mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Barium	129	0.400		"	"	"	"	"	"	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B	
Lead	6.80	0.200	"	"	"	"	"	"	"

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

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	687	0.0500	mg/L dry	1	BHG0568	07/22/24	07/22/24	EPA 6020B	
Magnesium	43.5	0.0500	"	"	"	"	"	"	
Sodium	176	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.76	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BHG0562	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.827	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

SS25@6
2407250-04 (Soil)

Summit Scientific

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

Date Sampled: **07/18/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.17			pH Units	1	BHG0560	07/22/24	07/23/24	EPA 9045D	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0553 - EPA 5030 Soil MS

Blank (BHG0553-BLK1)

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150				
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150				
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150				

LCS (BHG0553-BS1)

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	0.0799	0.0020	mg/kg	0.100		79.9	70-130				
Toluene	0.0927	0.0050	"	0.100		92.7	70-130				
Ethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130				
m,p-Xylene	0.188	0.010	"	0.200		93.9	70-130				
o-Xylene	0.0945	0.0050	"	0.100		94.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.5	50-150				
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	50-150				

Matrix Spike (BHG0553-MS1)

Source: 2407248-01

Prepared: 07/19/24 Analyzed: 07/20/24

Benzene	0.0533	0.0020	mg/kg	0.100	ND	53.3	70-130				QM-05
Toluene	0.0674	0.0050	"	0.100	ND	67.4	70-130				QM-05
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130				
m,p-Xylene	0.135	0.010	"	0.200	ND	67.3	70-130				QM-05
o-Xylene	0.0792	0.0050	"	0.100	ND	79.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0450		"	0.0400		112	50-150				
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150				

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0553 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0553-MSD1)	Source: 2407248-01			Prepared: 07/19/24 Analyzed: 07/20/24						
Benzene	0.0506	0.0020	mg/kg	0.100	ND	50.6	70-130	5.08	30	QM-05
Toluene	0.0663	0.0050	"	0.100	ND	66.3	70-130	1.53	30	QM-05
Ethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130	3.90	30	
m,p-Xylene	0.121	0.010	"	0.200	ND	60.4	70-130	10.7	30	QM-05
o-Xylene	0.0808	0.0050	"	0.100	ND	80.8	70-130	2.06	30	
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0564 - EPA 5030 Soil MS

Blank (BHG0564-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	ND	0.00500	mg/kg							
1-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0261		"	0.0333		78.3	40-150			
Surrogate: Fluoranthene-d10	0.0261		"	0.0333		78.3	40-150			

LCS (BHG0564-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0245	0.00500	mg/kg	0.0333		73.6	30-120			
1-Methylnaphthalene	0.0222	0.00500	"	0.0333		66.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.6	40-150			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-150			

Matrix Spike (BHG0564-MS1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0173	0.00500	mg/kg	0.0333	ND	51.9	30-120			
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.3	40-150			
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		45.9	40-150			

Matrix Spike Dup (BHG0564-MSD1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Fluorene	0.0175	0.00500	mg/kg	0.0333	ND	52.6	30-120	1.43	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	8.66	50	
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.3	40-150			
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		49.0	40-150			

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHG0589 - EPA 3050B

Blank (BHG0589-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Lead	ND	0.200	"							

LCS (BHG0589-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	36.0	0.200	mg/kg wet	37.6		95.7	80-120			
Barium	44.0	0.400	"	37.6		117	80-120			
Cadmium	1.78	0.200	"	1.88		94.5	80-120			
Lead	17.6	0.200	"	18.8		93.5	80-120			

Duplicate (BHG0589-DUP1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	3.75	0.200	mg/kg dry	3.43				9.02	20	
Barium	233	0.400	"	226				2.92	20	
Cadmium	0.222	0.200	"	0.215				3.40	20	
Lead	11.4	0.200	"	10.4				9.12	20	

Matrix Spike (BHG0589-MS1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	45.8	0.200	mg/kg dry	43.4	3.43	97.5	75-125			
Barium	276	0.400	"	43.4	226	116	75-125			
Cadmium	2.37	0.200	"	2.17	0.215	99.2	75-125			
Lead	31.3	0.200	"	21.7	10.4	96.1	75-125			

Matrix Spike Dup (BHG0589-MSD1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	44.1	0.200	mg/kg dry	43.8	3.43	92.8	75-125	3.75	25	
Barium	264	0.400	"	43.8	226	86.6	75-125	4.59	25	
Cadmium	2.37	0.200	"	2.19	0.215	98.5	75-125	0.0972	25	
Lead	30.5	0.200	"	21.9	10.4	91.5	75-125	2.73	25	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

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 BHH0024 - EPA 3050B

Blank (BHH0024-BLK1)

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Lead	ND	0.200	"							

LCS (BHH0024-BS1)

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	39.8	0.200	mg/kg wet	36.5	109	80-120				
Barium	37.9	0.400	"	36.5	104	80-120				
Cadmium	1.95	0.200	"	1.82	107	80-120				
Lead	19.0	0.200	"	18.2	104	80-120				

Duplicate (BHH0024-DUP1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	5.24	0.200	mg/kg wet	4.46			16.0	20		
Barium	238	0.400	"	91.9			88.4	20		QR-02
Cadmium	0.316	0.200	"	0.256			21.1	20		QR-01
Lead	9.62	0.200	"	8.37			13.9	20		

Matrix Spike (BHH0024-MS1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	43.6	0.181	mg/kg wet	36.2	4.46	108	75-125			
Barium	219	0.362	"	36.2	91.9	351	75-125			QM-07
Cadmium	2.26	0.181	"	1.81	0.256	110	75-125			
Lead	27.0	0.181	"	18.1	8.37	103	75-125			

Matrix Spike Dup (BHH0024-MSD1)

Source: 2406303-07RE1

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	45.5	0.200	mg/kg wet	38.5	4.46	107	75-125	4.32	25	
Barium	180	0.400	"	38.5	91.9	229	75-125	19.7	25	QM-07
Cadmium	2.36	0.200	"	1.92	0.256	110	75-125	4.61	25	
Lead	28.9	0.200	"	19.2	8.37	107	75-125	6.85	25	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

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

Summit Scientific

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

Batch BHG0568 - General Preparation

Blank (BHG0568-BLK1)

Prepared & Analyzed: 07/22/24

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

LCS (BHG0568-BS1)

Prepared & Analyzed: 07/22/24

Calcium	5.17	0.0500	mg/L wet	5.00	103	70-130
Magnesium	5.51	0.0500	"	5.00	110	70-130
Sodium	5.76	0.0500	"	5.00	115	70-130

Batch BHH0297 - General Preparation

Blank (BHH0297-BLK1)

Prepared: 08/12/24 Analyzed: 08/14/24

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

LCS (BHH0297-BS1)

Prepared: 08/12/24 Analyzed: 08/14/24

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	4.69	0.0500	"	5.00	93.8	70-130
Sodium	4.61	0.0500	"	5.00	92.2	70-130

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

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

Summit Scientific

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

Batch BHG0562 - General Preparation

Duplicate (BHG0562-DUP1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

% Solids	75.5		%		75.8			0.419		20	
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Summit Scientific



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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

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			Limits	RPD	Limit		

Batch BHG0571 - General Preparation

Blank (BHG0571-BLK1)

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0571-BS1)

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

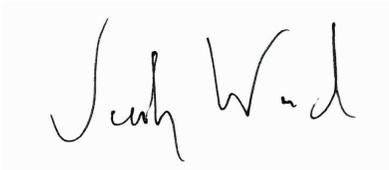
Duplicate (BHG0571-DUP1)

Source: 2407248-01

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) 3.24 0.0100 mmhos/cm 3.30 2.02 20

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
 Project Manager: Ryan Finley

Reported:
 08/19/24 08:48

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 BHG0560 - General Preparation

LCS (BHG0560-BS1)		Prepared: 07/22/24 Analyzed: 07/23/24										
pH	9.12		pH Units	9.18		99.3		95-105				
Duplicate (BHG0560-DUP1)		Source: 2407250-01		Prepared: 07/22/24 Analyzed: 07/23/24								
pH	8.57		pH Units			8.47			1.17		20	

Batch BHH0114 - General Preparation

LCS (BHH0114-BS1)		Prepared: 08/05/24 Analyzed: 08/06/24										
pH	9.24		pH Units	9.18		101		95-105				
Duplicate (BHH0114-DUP1)		Source: 2407407-01		Prepared: 08/05/24 Analyzed: 08/06/24								
pH	8.66		pH Units			8.64			0.231		20	

Batch BHH0138 - General Preparation

LCS (BHH0138-BS1)		Prepared: 08/06/24 Analyzed: 08/07/24										
pH	9.18		pH Units	9.18		100		95-105				
Duplicate (BHH0138-DUP1)		Source: 2407250-02RE1		Prepared: 08/06/24 Analyzed: 08/07/24								
pH	9.59		pH Units			9.61			0.208		20	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Razor GL 2024 Release-1

Project Number: 024-131
Project Manager: Ryan Finley

Reported:
08/19/24 08:48

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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