

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 10, 2023

Carter Peace

GIS Peace

2951 Niagara St

Denver, CO 80207

RE: CO State 1 and 2

Work Order #2308027

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/23 14:09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WPWS	2308027-01	Soil	08/01/23 00:00	08/01/23 14:09
WPSS	2308027-02	Soil	08/01/23 00:00	08/01/23 14:09
EPES	2308027-03	Soil	08/01/23 00:00	08/01/23 14:09
EPNS	2308027-04	Soil	08/01/23 00:00	08/01/23 14:09
EPSS	2308027-05	Soil	08/01/23 00:00	08/01/23 14:09
EPWS	2308027-06	Soil	08/01/23 00:00	08/01/23 14:09
SPILL 1	2308027-07	Soil	08/01/23 00:00	08/01/23 14:09
SPILL 2	2308027-08	Soil	08/01/23 00:00	08/01/23 14:09
SPILL 3	2308027-09	Soil	08/01/23 00:00	08/01/23 14:09
SPILL 4	2308027-10	Soil	08/01/23 00:00	08/01/23 14:09
BM1	2308027-11	Soil	08/01/23 00:00	08/01/23 14:09
BM2	2308027-12	Soil	08/01/23 00:00	08/01/23 14:09
BM3	2308027-13	Soil	08/01/23 00:00	08/01/23 14:09
BM4	2308027-14	Soil	08/01/23 00:00	08/01/23 14:09
BM5	2308027-15	Soil	08/01/23 00:00	08/01/23 14:09
WPB	2308027-16	Soil	08/01/23 00:00	08/01/23 14:09
EPB	2308027-17	Soil	08/01/23 00:00	08/01/23 14:09

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S₂

2308027-1

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303-277-9310

Page 1 of 2

Client: GLS PEACE

Project Manager:

Address:

E-Mail:

City/State/Zip:

Phone:

Project Name: CO STATE 1 AND 2

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TPH 60-130	GLS ORGANIC	GLS METALS	GLS SS	
1	WPWS	8/1/23															
2	WPSS																
3	EP ES																
4	EP NS																
5	EP SS																
6	EP WS																
7	SPILL 1																
8	SPILL 2																
9	SPILL 3																
10	SPILL 4																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/1/23 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/1/23 14:00</u>	Turn Around Time (Check)	Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard 48 hours <input type="checkbox"/>	Notes: GLS SS = EC, SAR pH SATURATED PASTE BORON HOT WATER
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
Temperature Upon Receipt: <u>28.4</u>	Corrected Temperature _____	HNO ₃ lot # _____	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No			
IR gun correction: _____		IR gun #: <u>2</u>				

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Golden, CO 80403
303-277-9310

Lab ID	Page <u>2</u> of <u>2</u>
2308027-2	

Client: <u>GLS PEACE</u>	Send Data To: Project Manager: <u>CARTER PEACE</u>	Send Invoice To: Company: <u>GLS PEACE</u>
Address:	E-Mail:	Project Name/Location:
City/State/Zip:		AFE#:
Phone:	Project Name: <u>CO STATE 1 AND 2</u>	PO/Billing Codes:
Sampler Name: <u>CJP</u>	Project Number:	Contact:

				Preservative				Matrix				Analysis Requested				Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other				
1	ISM 1	8/1/23					X			X			X			
2	ISM 2						X			X			X			
3	ISM 3						X			X			X			
4	ISM 4						X			X			X			
5	ISM 5						X			X			X			
6	SPILL 1						X			X			X			
7	SPILL 2						X			X			X			
8	SPILL 3						X			X			X			
9	SPILL 4						X			X			X			
10	WPB						X			X			X			
11	WPE EPTB						X			X			X			
12							X			X			X			
13							X			X			X			
14							X			X			X			
15							X			X			X			

Relinquished by: <u>[Signature]</u> Date/Time: <u>8/1/23 1400</u>	Received by: <u>[Signature]</u> Date/Time: <u>8/1/23 14:09</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
		1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Relinquished by:	Received by:	Standard	Field Turb.	
Temperature Upon Receipt: <u>28.4</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2308027

Client: GIS Pearce Client Project ID: CO StateShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 28.4 Thermometer # 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No cooling required
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standard
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.


 Custodian Printed Name

 8/1/23 14:09
 Date/Time



GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

WPWS
2308027-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0578	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	40.4	0.0578	"	"	"	"	"	"	
Sodium	73.1	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.54	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.05	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

WPWS
2308027-01 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.59			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

WPSS
2308027-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0958	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	937	0.0630	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	148	0.0630	"	"	"	"	"	"	
Sodium	205	0.0630	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.575	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2
Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

WPSS
2308027-02 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.09			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPES
2308027-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0122	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.7	0.0587	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	8.98	0.0587	"	"	"	"	"	"	
Sodium	18.5	0.0587	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.489	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.325	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPES
2308027-03 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.70			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2
Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPNS
2308027-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	81.0	0.0595	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	10.4	0.0595	"	"	"	"	"	"	
Sodium	8.67	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	0.241	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	84.1		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.257	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPNS
2308027-04 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.77			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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GIS Peace
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Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPSS
2308027-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	54.3	0.0601	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	11.6	0.0601	"	"	"	"	"	"	
Sodium	8.48	0.0601	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	0.273	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	83.2		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.320	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPSS
2308027-05 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.32			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPWS
2308027-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	72.4	0.0571	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	13.2	0.0571	"	"	"	"	"	"	
Sodium	62.7	0.0571	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sodium Adsorption Ratio	1.78	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	87.5		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.447	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPWS
2308027-06 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.55			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 1
2308027-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0572	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	223	0.0565	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	69.4	0.0565	"	"	"	"	"	"	
Sodium	273	0.0565	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.09	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.680	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 1
2308027-07 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.24			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 2
2308027-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0608	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	159	0.0561	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	29.2	0.0561	"	"	"	"	"	"	
Sodium	395	0.0561	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.56	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 2
2308027-08 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.02			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 3
2308027-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.101	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	178	0.0645	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	40.7	0.0645	"	"	"	"	"	"	
Sodium	187	0.0645	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.29	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.6		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.576	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 3
2308027-09 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.76			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 4
2308027-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0543	0.0100	mg/L	1	BGH0088	08/02/23	08/08/23	EPA 6020B	

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	246	0.0642	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	61.4	0.0642	"	"	"	"	"	"	
Sodium	182	0.0642	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100	units	1	BGH0292	08/08/23	08/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.558	0.0100	mmhos/cm	1	BGH0156	08/03/23	08/03/23	EPA 120.1	

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

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

SPILL 4
2308027-10 (Soil)

Summit Scientific

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

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.52			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific

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2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

BM1
2308027-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.721	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	60.5	0.400	"	"	"	"	"	"	
Cadmium	0.266	0.200	"	"	"	"	"	"	
Copper	1.69	0.400	"	"	"	"	"	"	
Lead	6.50	0.200	"	"	"	"	"	"	
Nickel	1.78	0.400	"	"	"	"	"	"	
Selenium	ND	0.292	"	"	"	"	"	"	
Silver	0.0252	0.0200	"	"	"	"	"	"	
Zinc	7.07	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.0		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

BM2
2308027-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.800	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	104	0.400	"	"	"	"	"	"	
Cadmium	0.256	0.200	"	"	"	"	"	"	
Copper	1.97	0.400	"	"	"	"	"	"	
Lead	7.10	0.200	"	"	"	"	"	"	
Nickel	2.48	0.400	"	"	"	"	"	"	
Selenium	ND	0.288	"	"	"	"	"	"	
Silver	0.0563	0.0200	"	"	"	"	"	"	
Zinc	7.07	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.3		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

BM3
2308027-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.30	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.251	0.200	"	"	"	"	"	"	
Copper	2.28	0.400	"	"	"	"	"	"	
Lead	6.18	0.200	"	"	"	"	"	"	
Nickel	2.56	0.400	"	"	"	"	"	"	
Selenium	ND	0.293	"	"	"	"	"	"	
Silver	0.0496	0.0200	"	"	"	"	"	"	
Zinc	6.93	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.8		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

BM4
2308027-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.741	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	85.6	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	1.91	0.400	"	"	"	"	"	"	
Lead	8.27	0.200	"	"	"	"	"	"	
Nickel	1.81	0.400	"	"	"	"	"	"	
Selenium	ND	0.286	"	"	"	"	"	"	
Silver	0.0317	0.0200	"	"	"	"	"	"	
Zinc	8.44	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.8		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

BM5
2308027-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.746	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	77.3	0.400	"	"	"	"	"	"	
Cadmium	0.253	0.200	"	"	"	"	"	"	
Copper	1.66	0.400	"	"	"	"	"	"	
Lead	6.77	0.200	"	"	"	"	"	"	
Nickel	1.94	0.400	"	"	"	"	"	"	
Selenium	ND	0.279	"	"	"	"	"	"	
Silver	0.0300	0.0200	"	"	"	"	"	"	
Zinc	7.25	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.2		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

WPB
2308027-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.775	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	209	0.400	"	"	"	"	"	"	
Cadmium	0.232	0.200	"	"	"	"	"	"	
Copper	2.43	0.400	"	"	"	"	"	"	
Lead	5.77	0.200	"	"	"	"	"	"	
Nickel	2.63	0.400	"	"	"	"	"	"	
Selenium	ND	0.331	"	"	"	"	"	"	
Silver	0.0305	0.0200	"	"	"	"	"	"	
Zinc	8.57	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.7		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

EPB
2308027-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.457	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	387	0.400	"	"	"	"	"	"	
Cadmium	0.208	0.200	"	"	"	"	"	"	
Copper	1.88	0.400	"	"	"	"	"	"	
Lead	5.56	0.200	"	"	"	"	"	"	
Nickel	2.27	0.400	"	"	"	"	"	"	
Selenium	ND	0.316	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	8.19	0.400	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0102	08/02/23	08/02/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.3		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

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

Summit Scientific

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

Batch BGH0088 - EPA 3050B

Blank (BGH0088-BLK1)

Prepared: 08/02/23 Analyzed: 08/08/23

Boron ND 0.0100 mg/L

LCS (BGH0088-BS1)

Prepared: 08/02/23 Analyzed: 08/08/23

Boron 4.25 0.0100 mg/L 5.00 85.0 80-120

Duplicate (BGH0088-DUP1)

Source: 2308017-01

Prepared: 08/02/23 Analyzed: 08/08/23

Boron 0.224 0.0100 mg/L 0.253 12.1 20

Matrix Spike (BGH0088-MS1)

Source: 2308017-01

Prepared: 08/02/23 Analyzed: 08/08/23

Boron 5.47 0.0100 mg/L 5.00 0.253 104 75-125

Matrix Spike Dup (BGH0088-MSD1)

Source: 2308017-01

Prepared: 08/02/23 Analyzed: 08/08/23

Boron 5.09 0.0100 mg/L 5.00 0.253 96.8 75-125 7.17 25

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2
Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0100 - EPA 3050B

Blank (BGH0100-BLK1)

Prepared: 08/02/23 Analyzed: 08/03/23

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

LCS (BGH0100-BS1)

Prepared: 08/02/23 Analyzed: 08/03/23

Arsenic	36.9	0.200	mg/kg wet	40.0	92.2	80-120
Barium	32.0	0.400	"	40.0	80.1	80-120
Cadmium	1.64	0.200	"	2.00	81.9	80-120
Copper	35.8	0.400	"	40.0	89.5	80-120
Lead	16.0	0.200	"	20.0	80.2	80-120
Nickel	35.8	0.400	"	40.0	89.4	80-120
Selenium	3.81	0.260	"	4.00	95.1	80-120
Silver	1.62	0.0200	"	2.00	81.2	80-120
Zinc	37.1	0.400	"	40.0	92.6	80-120

Duplicate (BGH0100-DUP1)

Source: 2308022-01

Prepared: 08/02/23 Analyzed: 08/03/23

Arsenic	1.17	0.200	mg/kg dry	1.21	3.63	20	
Barium	93.1	0.400	"	101	7.82	20	
Cadmium	0.533	0.200	"	0.872	48.1	20	QR-01
Copper	5.34	0.400	"	6.02	12.0	20	
Lead	43.6	0.200	"	62.0	34.9	20	QR-04
Nickel	3.15	0.400	"	3.35	6.08	20	
Selenium	ND	0.311	"	ND		20	
Silver	0.0306	0.0200	"	0.0316	3.08	20	
Zinc	20.4	0.400	"	23.5	14.4	20	

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0100 - EPA 3050B

Matrix Spike (BGH0100-MS1)

Source: 2308022-01

Prepared: 08/02/23 Analyzed: 08/03/23

Arsenic	14.4	0.200	mg/kg dry	47.8	1.21	27.6	75-125			QM-07
Barium	128	0.400	"	47.8	101	56.5	75-125			QM-07
Cadmium	1.67	0.200	"	2.39	0.872	33.4	75-125			QM-07
Copper	16.7	0.400	"	47.8	6.02	22.3	75-125			QM-07
Lead	32.7	0.200	"	23.9	62.0	NR	75-125			QM-07
Nickel	16.8	0.400	"	47.8	3.35	28.1	75-125			QM-07
Selenium	3.04	0.311	"	4.78	ND	63.5	75-125			QM-07
Silver	1.30	0.0200	"	2.39	0.0316	53.1	75-125			QM-07
Zinc	29.8	0.400	"	47.8	23.5	13.1	75-125			QM-07

Matrix Spike Dup (BGH0100-MSD1)

Source: 2308022-01

Prepared: 08/02/23 Analyzed: 08/03/23

Arsenic	14.1	0.200	mg/kg dry	47.8	1.21	27.0	75-125	1.88	25	QM-07
Barium	120	0.400	"	47.8	101	40.2	75-125	6.29	25	QM-07
Cadmium	1.82	0.200	"	2.39	0.872	39.8	75-125	8.82	25	QM-07
Copper	19.1	0.400	"	47.8	6.02	27.4	75-125	13.9	25	QM-07
Lead	60.0	0.200	"	23.9	62.0	NR	75-125	58.9	25	QM-07
Nickel	16.4	0.400	"	47.8	3.35	27.4	75-125	2.07	25	QM-07
Selenium	3.39	0.311	"	4.78	ND	71.0	75-125	11.2	25	QM-07
Silver	1.34	0.0200	"	2.39	0.0316	54.8	75-125	3.04	25	QM-07
Zinc	37.7	0.400	"	47.8	23.5	29.6	75-125	23.3	25	QM-07

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0102 - 3060A Mod

Blank (BGH0102-BLK1)

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0102-BS1)

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 20.4 0.30 mg/kg wet 25.0 81.4 80-120

Duplicate (BGH0102-DUP1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0102-MS1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 23.7 0.30 mg/kg dry 27.1 ND 87.6 75-125

Matrix Spike Dup (BGH0102-MSD1)

Source: 2307592-01

Prepared & Analyzed: 08/02/23

Chromium, Hexavalent 24.5 0.30 mg/kg dry 27.1 ND 90.2 75-125 2.92 20

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GIS Peace
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Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

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

Summit Scientific

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

Batch BGH0083 - General Preparation

Blank (BGH0083-BLK1)

Prepared: 08/02/23 Analyzed: 08/07/23

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

LCS (BGH0083-BS1)

Prepared: 08/02/23 Analyzed: 08/07/23

Calcium	5.08	0.0500	mg/L wet	5.00	102	70-130
Magnesium	5.76	0.0500	"	5.00	115	70-130
Sodium	5.61	0.0500	"	5.00	112	70-130

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

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

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

Batch BGH0110 - General Preparation

Duplicate (BGH0110-DUP1)		Source: 2308027-01		Prepared: 08/02/23 Analyzed: 08/03/23	
% Solids	86.5		%	86.5	0.0132 20

Summit Scientific

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GIS Peace
2951 Niagara St
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Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

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

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

Batch BGH0156 - General Preparation

Blank (BGH0156-BLK1)

Prepared & Analyzed: 08/03/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0156-BS1)

Prepared & Analyzed: 08/03/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.3 95-105

Duplicate (BGH0156-DUP1)

Source: 2307599-01

Prepared & Analyzed: 08/03/23

Specific Conductance (EC) 0.527 0.0100 mmhos/cm 0.541 2.66 20

Summit Scientific

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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

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

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

Batch BGH0157 - General Preparation

LCS (BGH0157-BS1)

Prepared & Analyzed: 08/03/23

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BGH0157-DUP1)

Source: 2307599-01

Prepared & Analyzed: 08/03/23

pH	7.66	pH Units	7.66	0.00	20
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GIS Peace
2951 Niagara St
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]
Project Manager: Carter Peace

Reported:
08/10/23 12:19

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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.
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